



[illegible]

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| Q211: | 1041         |
| Q212: | DNA          |
| Q213: | Homo sapiens |

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[illegible]

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 <213> Homo sapien

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 cagaggggtc aataaatcga ccaatatgct cccgacgaat agacgcacag cagcgctctc 540  
 atgggtttcac aggcctcatt acccttaaggg aaaaatggct gggcggccac atgggggaaca 600



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<211> 618  
<212> DNA  
<213> Homo sapien

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<211> 1108  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (300)..(300)  
<223> n= a, c, g or t

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aagatagaa ggaaggaggg aacaaagtcac atgggtgtac aaggaaaggg aactctagaag 360

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<210> 18
<211> 552
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
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<223> n= a, c, g or t

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 <211> 307  
 <212> DNA  
 <213> Homo sapien

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 acaatgtata ggaatatatt ccaaaattaa acattacagg gatcaaatga tctagcaatt 180  
 caaccccaga tgcatacaga agaacatatg ttaattgaaa gtcaagtgca agaaagttca 240  
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 ttggata 307

<210> 20  
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 <212> DNA  
 <213> Homo sapien

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 <211> 934  
 <212> DNA  
 <213> Homo sapien

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 <212> DNA  
 <213> Homo sapien

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<210> 23  
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 <212> DNA

<210> Homo sapien

<211>

<212> middle section

<222> 615 to 712

<223> n=14, n=13, n=12

<400> 23

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<211> 870

<212> DNA

<213> Homo sapien

<400> 24

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&lt;210&gt; 26

&lt;211&gt; 616

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 26

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 <211> 461  
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 <213> Homo sapien

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 <213> Homo sapien

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<213> Homo sapien

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<210> 30  
<211> 761  
<212> DNA  
<213> Homo sapien

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 <212> DNA  
 <213> Homo sapien

<400> 31  
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 <212> DNA  
 <213> Homo sapien

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 <212> DNA  
 <213> Homo sapien

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 <211> 447  
 <212> DNA  
 <213> Homo sapien

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<411> 36  
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 <212> DNA  
 <213> Homo sapien

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 atggttagca gaaaggtagt tccatttaaa tcaaatataa gtccaaagag ttccttggtc 360  
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data

424

<211> 37  
 <211> 661  
 <212> DNA  
 <213> Homo sapien

<411> 37  
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<212> 38  
 <211> 272  
 <212> DNA  
 <213> Homo sapien

<422> 38  
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 tgatactatt ttaactcatt caagctctta aa 272

<212> 39  
 <211> 207

<210> DNA  
 <211> Homo sapiens

<411> 121  
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<210> 40  
 <211> 134  
 <212> DNA  
 <213> Homo sapiens

<400> 40  
 gtgtgagctt ttggtttttt ttggtttttt ttggtttttt ttggtttttt ttggtttttt 60  
 ttggtttttt ttggtttttt ttggtttttt ttggtttttt ttggtttttt ttggtttttt 120  
 ttggtttttt ttggtttttt ttggtttttt ttggtttttt ttggtttttt ttggtttttt 134

<210> 41  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 41  
 ttggtttttt ttggtttttt ttggtttttt ttggtttttt ttggtttttt ttggtttttt 60  
 ttggtttttt ttggtttttt ttggtttttt ttggtttttt ttggtttttt ttggtttttt 120  
 ttggtttttt ttggtttttt ttggtttttt ttggtttttt ttggtttttt ttggtttttt 180  
 ttggtttttt ttggtttttt ttggtttttt ttggtttttt ttggtttttt ttggtttttt 240  
 ttggtttttt ttggtttttt ttggtttttt ttggtttttt ttggtttttt ttggtttttt 300  
 ttggtttttt ttggtttttt ttggtttttt ttggtttttt ttggtttttt ttggtttttt 360  
 ttggtttttt ttggtttttt ttggtttttt ttggtttttt ttggtttttt ttggtttttt 420  
 ttggtttttt ttggtttttt ttggtttttt ttggtttttt ttggtttttt ttggtttttt 480  
 ttggtttttt ttggtttttt ttggtttttt ttggtttttt ttggtttttt ttggtttttt 540  
 ttggtttttt ttggtttttt ttggtttttt ttggtttttt ttggtttttt ttggtttttt 546

<210> 42  
 <211> 1134  
 <212> DNA  
 <213> Homo sapiens

<400>



<221> misc\_feature  
 <222> 1877..1877  
 <223> n= a, c, g or t

<221>  
 <221> misc\_feature  
 <222> 1877..1877  
 <223> n= a, c, g or t

<221>  
 <221> misc\_feature  
 <222> 1877..1877  
 <223> n= a, c, g or t

<400> 42  
 agttaaaggg atgaggggtg tggtaattgt atttaggtcc tgtgaaaagg cagaagccct 60  
 agtaaacaca atagggtttc attgagaacc ctgagctctag gtgaatcaga aataaaaacat 120  
 aggtagttaa gcaaaaactc aaataaattc agattagtgc ccttagccta gatgtctgac 180  
 tgaagccaga ataaaaatcc tctttggagg aagatgtctt tcccagaaac ccagggtatc 240  
 acgttagtct ttcctgtact atattctgtc gtccagttag ataatagaca caccacatga 300  
 gaagaccaga tatgattaaa aaaaaaata aaaaataaac aaattggata taccataaag 360  
 agatccagat aatagataat caaatatggc cctaacata acgtgtgatta atatgtctca 420  
 aggattaaaa gataagattg aaaaactctg cagagaaatg aaaattgtta ataagaccaa 480  
 atggaccttc tggaaactga aaatacaatt atggcagtta aaatctaaat gagtgaannn 540  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnatggc tgcataaaag 600  
 aatcaatgac taaaaccatt gaatgtgtac ttaaatggg tgaattttat gctgtgtaaa 660  
 ttgtacttta aaatttaagc tttaaaaaaa caaatgaat tggttcaata gactagatgc 720  
 aattgaggag agagttagtg aaccagaaga caaagcagaa gaaaatatca acaataaagg 780  
 attctgagga ttttagatgg aaataaata ttagattgtg aaagacatat taaatatggc 840  
 ggaagggtct aatttatgtg taactggaga ttagcngga gaggagagag aaagtgggac 900  
 ataaaaaata attggaataa aatagctgag atagtcttaa aatcaaaaa tcaacaaaag 960  
 caatagaatc cagaagccct agggcaaaa gtaggttaag taaaagatt caacatagta 1020  
 aaattctaga taataaagct aacgagaaca acatagggat aacatggtaa catctaaa 1080  
 agaaaagag aaagctgaa aagcatcatg gtggggaggt gggtaacctt taat 1134

<210> 43  
 <211> 161

<212> DNA  
 <213> Homo sapiens

<400> 43  
 agtgcattat tcttagtata tctggcgtct agggagggag taaaatgggt tctatcttat 60  
 tcaatgattat tctattatata agtgggtata tctattacaa agtggtaaat gtttattatg 120  
 attagaaata aattcttatt atctagagga gtaattattg a 180

<210> 44  
 <211> 413  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 220...221  
 <223> n= a, c, g or t

<400> 44  
 agttcacttg agcttcaaac tccaaagctg aagcaatctt cccacctcag cctctcaagt 60  
 agctgggaact acaggcagac gccaccagga caggccaatt ttgtattttt ttgtagagac 120  
 gaggttttgc catattgccc aggcctggctt cgaactccctg agctcaagtg atccaaaccac 180  
 ctcatcttcc caaagtgcctg ggatttatagg ctggacaactc agtgcctgggt ctccagtaagt 240  
 actcttcctg ataattagaa ttgttttcta atctttaatc acatttacta cttttgtaat 300  
 aatgtaccac ttttataata aagaattcat taatagaaat aagracattt taactgtctgc 360  
 tttagcagca catatactag aaataagcac atcttataat atagaagata tat 413

<210> 45  
 <211> 470  
 <212> DNA  
 <213> Homo sapiens

<400> 45  
 atcaaatgct gagacccaaga tattgcgaga tggaaagtgt ggttaattggaa agaacataga 60  
 tgacattgga agagatcactg tgagggaattt acaagaggtc aaatagaaat aaatcaagg 120  
 gctgacaggt agcaatgagg tgagtaagca caaattcaaa cagtctcatg gcttcttcca 180  
 gcaaaagctca ccagcaaaaag ccagagactc tggagtaac ccaggtttaga gaacatggt 240  
 atgggaatcag tccacaatgt ctttaaatcc agttaacccg tttcttctta aaatatctt 300  
 aaatatctct tctctcatg ccttagtatt cagaattaaa atgttgttcc tgaatgcata 360  
 gcaaaagagaa taaactcagg agaaattaac tcttcatctc cagatadaga aggaactgat 420  
 ttgttagaga ccaaccaactt aatagtttgg agcaggaggt ggcaaaactac 470

<210> 40  
 <211> 41  
 <212> DNA  
 <213> Homo sapien

<401> 40  
 ttttttggg tttttttaa tggatcaat tttttttat gtttttttt ctctccagat 60  
 caattttact tagtttcaat agttcagtt tttttttctt gtttttttta ttggaagaca 120  
 gaactgtgtg atgattaaag ccttggtatt ggagctaaat acagctaaat cttaacttgc 180  
 aatgtaacta cttaagttaat tgggttttaat gaggttcagt ttttttaataa aatgaggata 240  
 atatctacct tttgtagtta tggtaaggat ttaaaagctg atgctgtgtg cggggatatg 300  
 gttagaacta ctacatttg tgtcatgatt ctactgtatt actcagtaat ctatctttct 360  
 ctccatacac tttcttttggc aataatgaca aaaataatca cagcttatgt 410

<210> 47  
 <211> 411  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> 1254...1265  
 <223> n= a, c, g or t

<220>  
 <221> misc\_feature  
 <222> 1333...1333  
 <223> n= a, c, g or t

<220>  
 <221> misc\_feature  
 <222> 1393...1393  
 <223> n= a, c, g or t

<400> 47  
 gtctaaactc agtgcattgc aatcattcag atatgggtta atgtaggagt ttataatgat 60  
 accttaaaag gagaaatcta gtttttaatt gcttgatctt ctctctggta attattaggg 120  
 agattaagag tcttaagtat aagaagctac agagaaatag gcatagtcta gaagggtagt 180  
 gtaataatg tctatagttg tgggttttgc atgggtcatt aaataggggc tatgagatct 240  
 ttctctgtgc tctctctctct cttctctctct cttctctctct tctctctctct ggaagctgga 300  
 gttctactct gttctctctt actgtgtgtg aatgttttaa atatgggatt taattgttgt 360

total length 4400 bp. The sequence was determined by the following method:

411

<211> 44  
<212> 1000  
<213> DNA  
<214> Homo sapiens

<221>  
<222> misc\_feature  
<223> 254 .. 276  
<224> n= a, c, g or t

<225>  
<226> misc\_feature  
<227> 333 .. 333  
<228> n= a, c, g or t

<400> 48  
gtctaacttc agtgcattgc aacacatcag atatgggttaa atgtaggagt ttataatgat 60  
acttttaaaga gagaaatccta gtccttaatt gcttgatctt ctctctggta attattaggg 120  
agattaagag tcacaagtac aagaagccac agagaaacag gcatagtcta gaagggcagt 180  
gtatcccatg cccatagctg tgccttgcct atggcccatc aaacagcggc catgagacct 240  
ttctctgttg taaccccccc cccccccccc cccccccccc tcacacaggg ggaagctgca 300  
gtctaacttc gctgtctctt actgtgtctg aaggttttaa atatgggatt taattgttgt 360  
tttatctcga aattctttta ttatacagat ggtctctgac atacaatggr gttatgtctc 420  
aataaactca ttgtaggttg tagatattgt aagttgaaaa tgcattcaat acacctaacc 480  
taactgaacat catagcttag cctagctctc cttaaatgtg cctagaacat ttacattagc 540  
ctacagcttg gtaaaagcat ataacacaaa gcttatttta taataaaagt ttgaatagct 600  
catgtaattt attgaatctg gttctaaaaa tgaacagcag gatgggttga tgggtattca 660  
aagtatgggt tctactgaat gcaagtggtt ctctcaccac cataaaaatc aaaaaaaaaa 720  
aaaaaaatct ccttgtagct atcaggagac tttagtgact taatggaag attgaattcc 780  
agtgcctctt ggtctctctc tctcctctg tctctctctg ataactataa taagtgcata 840  
tagaataatg ttatgagagt ataaaaagc gattaaaaat aatttggggg taagaagggt 900  
gggtcataaa tcttctcagc ggaagatgac atttatatta ggccatgaat gatgttaagt 960  
tttaaaaggt attcatgggg gtggggcagg cattcaggcc ttagggaaca ataggagcaa 1020  
aa 1080

<210> 49

<211> 231  
 <212> DNA  
 <213> Homo sapien

<210> 49  
 gaaatataa tagagctgaa gtgaaaggat tgaatgggt tggtagatgt tgaatcttcc 60  
 ttagctgatt aggaactta atttcaat aaaggctac gtagtggtg ggaactagca 120  
 attcctctat tttctctgt tctttgggg aggtcctggt aggtgtggt gatgctctc 180  
 gcaataactg aatactccag tcttgggttc gggaattagg ggaactaggt agagacatga 240  
 ggggggctgc tctgagaagg gagaagcaa aaacctggag ggaagattgt ggggaagaca 300  
 tttacaaatt gactgatttt tcttatacat tttcaagagt cctgattttt agttttttaa 360  
 aacattactt aaaaaaaaaa atgcatttt aaagctgatt acaaaatgat tttaaactcc 420  
 tggatttttc ccaaatcttg tttactttaa ttatagatga tcttaatatg ctattatttt 480  
 aaaaaaacat atctactct attgtaatgt attatcaggt taaaaaatta ggaaactgct 540  
 tatttcactt tttcaattta aagcacatat caaagatcat ggcacaaaag gaggggctca 600  
 ataaatgta gccttcagt tgcctcaaaa g 631

<210> 50  
 <211> 797  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (569)...(569)  
 <223> n= a, c, g or t

<400> 50  
 tctgtagctt ccatgtttcc tctattaaca agctaatgg gagaagcgt taacttatgt 60  
 aaactttaca tttttatgca aatgaagctg atatttatta gagctaaaaa aattatactg 120  
 gcacttagtg gactaacctt gcttgccttg gaattgttag aggaagagag ttgattgtcc 180  
 actaataact cttctgtaaa caaatatgca tctatgcacc tttttagaat ttaagacaa 240  
 aaagaagagt tggagagaga ttgttgaga ttgtttatta gggctgataa cctgaaataa 300  
 ctcttgattg gcaggcaggt cttggcttca aaatttttt gtgaaagaaa gatagccttt 360  
 ttgatagaaa tgcataaaa aaaaatgata aaaaatgaaa gtaaatgca tttcaagag 420  
 gcttttga aaataatttt taatagtgg ttgtattgtt actgagagaa ctttatgtct 480  
 aatgactgac taactagatg attttgcatt aatataataa caattacctg cctcagtggt 540  
 ttgtacagta ttgtggcaaa atagctaaac ttaaaggagt tatacaaaaa gcagaattcc 600

ataatgaaat agaatctttt ttgggaaata tatagcatgt tttttttttt taattcttta 660  
 agatcgaaat atttatctta agtggtgttt ttttttttgt atgatagtta atggcatggg 700  
 atctgggtgg ttttttttgt ttgtttttt taatacagg agaaagaagg tttaacttt 740  
 ttgttgctta taatagt 780

<210> 51  
 <211> 527  
 <212> DNA  
 <213> Homo sapien

<400> 51  
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 ttctcaggca aatcagattt tttttttctt tttaaagagg ccttacaaaa gattgatggg 120  
 ctgaacatctt atttccttca cacttttcaa ataactatgt accccttagt tcatggaagg 180  
 ccttcaagta tttctagggg ccaagtacac ctgttcagag cgcagaagct acacagtcag 240  
 actaatgaat catctcagaa catttttctt agactttggg tatacctcta cagaaatcac 300  
 tggatgttat taagcctttt tagtttttaa atatttcaaa tgatttatctt atatgtgttag 360  
 aatttgcttc cttaagattt tttctatat ggctttaaag gatcttcata acagccttca 420  
 caatgaaaca agtgaggtat tgttatccat atttctaaat gactgagatt atgtgatttg 480  
 cctaagggtca cacagtatta gagtcaggac ttgttgccat ttttctt 527

<210> 52  
 <211> 579  
 <212> DNA  
 <213> Homo sapien

<400> 52  
 ggatggagga agggcagttg cgaaagtggg ggaaaaggag atccagcaga gcacggcaca 60  
 ttctcaggca aatcagattt tttttttctt tttaaagagg acatacaaaa gattgatggg 120  
 ctgaacatctt atttccttca cacttttcaa ataactatgt accccttagt tcatggaagg 180  
 ccttcaagta tttctagggg ccaagtacac ctgttcagag cgcagaagct acacagtcag 240  
 actaatgaat catctcagaa catttttctt agactttggg tatacctcta cagaaatcac 300  
 tggatgttat taagcctttt tagtttttaa atatttcaaa tgatttatctt atatgtgttag 360  
 aatttgcttc cttaagattt tttctatat ttgtttaaag gatcttcata acagccttca 420  
 caatgaaaca agtgaggtat tgttatccat atttctaaat gactgagatt atgtgatttg 480  
 cctaagggtca cacagtatta gagtcaggac ttgttgccat ttttttttct tgtaaattcc 540

ttgttttttt ttgttttttt ttgttttttt ttgttttttt

100

<210> 13  
 <211> 1133  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> 108..144  
 <223> n= a, c, g or t

<220>  
 <221> misc\_feature  
 <222> 1931..1931  
 <223> n= a, c, g or t

<220>  
 <221> misc\_feature  
 <222> 1943..1943  
 <223> n= a, c, g or t

<220>  
 <221> misc\_feature  
 <222> 1946..1946  
 <223> n= a, c, g or t

<220>  
 <221> misc\_feature  
 <222> 1991..1991  
 <223> n= a, c, g or t

<400> 53  
 ttcatgtttt ttgttttttt taaactttgtt ggtttttcacc caaggacaaa attaccctag 60  
 ggcaagacctt ttgttttttt ttggtaacaa ttagggttttg gtttttagnnn nnnnnnnnnn 120  
 nnnnnnnnnn nnnnnnnnnn nnnnngataa agaattgtata gctctataaaa tgactgttaa 180  
 aaggatatta tcnattgttt agatttttgtt tttttgtttt ttaaggaaaa gtgacaagg 240  
 ggtaaaagggt ttatcaaaaa agaatctttgt taccatatat agcattatat tatctaatg 300  
 acaaccagac aattagcttt tttttatag catgatattt cagtgtactt aaacccagg 360  
 cacagcaact acagtacagg aaagggttat gtaactaatt gagtcaactg atttatgtaa 420  
 agctcttttag aacataaaaa tgtatgtttt agcaagtagt acaaaaattgg gcaggtagt 480  
 catattacaa aaatgggtaa agaagcaata ttaattggct ctagagaaca tgtaggcctt 540  
 tgttttagtg ttgtgaactg aatactttac acttttatag ttggggaaaa agcagcaata 600

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atctctgaaa tgaagctttt atagatt tat gggctttaa ttat tgaat gtgtctgtt 460
cttcttaggg atgattctag tgaataaaa gattggtagt ttgctaggt aagataatat 480
agagatctta tagtggagat gatgacacag aatctctctt tcttatagat aactgacttt 760
tggcttattt taagtgatat gtcagacttt taagtacttc atctgggttt tttttcccc 640
tttcatttga taccatcaca gattggatgt ggcttatagg aatgggtagcc tagtgttagg 600
agagatacat atatatgtag aatttgggaat gccaagttaa ganttnaaat gtaattttag 660
taaggaaggg aatgtctcat taacatttat nccagttgat aattataaag aatattaaga 1020
acagtatagg gaa 1033

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<210> 54
<211> 403
<212> DNA
<213> Homo sapien

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<400> 54
tgaactcttg gttgcctttt tctttcatag tctcccagtg ggagcctctt atgtgtgggt 60
aagacactgg ggagtagggg acagtttagcc cagaaaggct tttctgaggg agagggaggt 120
tgaacgcact agttgggagg ggaatctgtt gtcttagaga gtttatgaga actgccccaa 160
agtgtatcca aagacatgag cactctggag ccttgggaatc tgggcccacat aaacttgggt 240
tgatccaggg tttgccccaa agagctgggtg gatgtctatt cctgtctcac tctctatccc 300
agcgcctccg agagctgtct ccccaaaaca aaggccaaggg aagggttaca agttccctat 360
aacttggctt gaatgcaagt tccctctgtg gcccagctcg agc 403

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<210> 55
<211> 360
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> 158...269
<223> n= a, c, g or t

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<400> 55
ttattaccag agatgacagg tccatttgtg gtagttctct gaagaccttc tagtggggnn 60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 160
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna agttttaaaa 300

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agaaacagaa aaattataga aaaggttta agaatagg atataagaa aaatttttt 177

<210> 57  
<211> 247  
<212> DNA  
<213> Homo sapien

<400> 56  
tgtttgattc caaagccat gttttctaaa aattacat gtgggtgaa gagaaggaga 60  
tcagagaagg ccagagagac tctcactctt taactaaggg ggaagaagct tctctgttac 120  
tgggcacatc tcattctgtg aacccatggt gtactaacat gtagggtgac ccttcctccc 180  
catttggttg gaacagtccc actctatgtc tgcctagtgc tcagtatggc agtattgtta 240  
aaattccc 247

<210> 57  
<211> 250  
<212> DNA  
<213> Homo sapien

<400> 57  
gootgtctga ttccaaagcc catgcttctt ccaaacctac catgttggct gaagagaagg 60  
agatctgaga agccagaga gattctcact tcttaactaa gggggaagaa gcttctctgt 120  
tactggcccc atttcatttg ctgaacccat ggtgtcctta catgtagggt gcccttctat 180  
ccccatttgc ctggaacagt cccactctat gtctgtcata gtgtcagtat ggcagtattg 240  
ttaaaattcc 250

<210> 58  
<211> 598  
<212> DNA  
<213> Homo sapien

<400> 58  
gggctggaga aatcactaga agggaggagc cctgaggttg ccgaggggga tcggagctac 60  
ttcccaaggg gcttacaagg cccgtagact gggaaactac ggtcacaaag ggtcagcgca 120  
ttcccaaggg tccagagacc aaaggagca tgggtggcat ttgaaagtca aagcagagga 180  
aggaggcagg tgggtcttgt tgaactggct tccagagctt gtgttgggca gagagatcct 240  
tcccgagagc tggagtggcc tgggtctcac ctgggttcag agtcaaggtt cactctggaat 300  
cactctcact ctgtctcttg acaaggcag ggtggttagc catgggctga tagctttgga 360  
gagcctgatt cagccttttg gttagagctgg gttagtccag cctcagggcc atcactcacc 420  
cgaagcattg tggtaacatg cctgccccgt gagacccgg gtgtggggca ggttgacagt 480

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.

\*  $\chi^2$ -test results are given in parentheses.

**Figure 1**

[illegible]

City: New Spain

(400) 59

[illegible]

gactcacoca gacagagagtc tctgtaggtt ccaggttatt gcccagagagc ctgagttccat 120

jhatggatcc agaacattac ggagggttgg aggttccagt gctgtcttgc ctcatctgac 180

atttatttattt tttttttttt gggggggggg tttttttttt tttttttttt tttttttttt 240

gattagaagtc ctgcgggaaa caagtctctag tcacggagagag tctggggccc ttccccaca 300

gggctctctt ctcaaaatcc catagctggg tgaaccaatgt aaatgcaggt cccatgcctt 350

gcccaggaga cctggctctt agggagccca gaaataaccg tgggaatatg gaggtatatg 420

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catcacacac acacacacac atcacacacac aacacacacac aacacacacac caaacacacac 540

ccctgacgct ctacctccga tcccacgaa acatcga'aa tacctcgagg tact 594

220 50

<211> 2848

&lt;212&gt; DNA

<213> Homo sapien.

4000 100

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ggctcaccCa gggcgggggtc tctgtaggct ccaaggcttatt gctcagagggc ctgagtgcat 120

[illegible]

240

ggttagagtc ataccgaaaa caagtctatg taggggagaa tatgggggac ttctcccaaa 303

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |
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| (c) |
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|            |            |            |            |             |             |      |
|------------|------------|------------|------------|-------------|-------------|------|
| aggaggagaa | ggggaatgag | gagtggttga | tgatgagat  | aggagggaa   | gagggactgg  | 770  |
| atgaggggt  | agagaaatg  | ggtagaagg  | ggggaatg   | ggagggggg   | actgagggga  | 780  |
| aggaaatgat | gtggaagaa  | ggggaatg   | agaaggga   | attataggaa  | atcaaggg    | 790  |
| tcattggaa  | ggaggaggga | gggagagg   | actgggga   | gagcaggaa   | ggggggagg   | 800  |
| agatgggg   | actggagg   | gagtgaaag  | agtgaggaa  | ttacgactcc  | caaaatgca   | 810  |
| acacgggtg  | ggagaagat  | tgtagaagt  | gggagggg   | gggttcttg   | acacatagtc  | 820  |
| ggagggagg  | ggggagaaa  | agagagaag  | agtgaggag  | catcgaccag  | ctgcaactgg  | 830  |
| aatacgga   | gggggggg   | gggttcaaa  | atgggttga  | gagggatag   | gaggaggg    | 840  |
| aggacatgt  | cttggtgat  | actatagg   | agattgagg  | ctgatgca    | ggccatgac   | 850  |
| agttcaagtc | caacctgg   | gagggggat  | gggagggg   | aggccatct   | ggccatgac   | 860  |
| aaggagggg  | agaggatcg  | tgagagcaa  | caatcaag   | tgtaggggag  | caacccctac  | 870  |
| accacggtc  | ccccgaaa   | catcaactcc | aagtgggaga | aggtgcagca  | gctgggtgca  | 880  |
| aaaaggga   | atggctct   | ggaggagag  | agaaagag   | agtccaaag   | gcacctggc   | 890  |
| ggcagttcg  | ccaggcagg  | caatgttgg  | ggggcttga  | tcagagcaa   | gatggaggag  | 900  |
| atgggggca  | ctccattga  | gatgaacgg  | acctggagg  | accagctgag  | ccacctgaag  | 910  |
| cagtatga   | gcagcatcg  | ggactacaag | ccaaacctgg | acctgctgga  | gcagcagca   | 920  |
| cagttcatcc | aggaggccct | catcttgag  | aacaagcaa  | ccaaactatac | catggagca   | 930  |
| atccgggtgg | gtggggagca | gctgctcac  | accattggcc | gcaccatcaa  | cgaggtggag  | 940  |
| aaccagatcc | ccacccggca | cgccaaagg  | atcagccagg | agcagatgca  | ggagttccgg  | 950  |
| gggtcttcca | actatttga  | caagaagcag | acaggcagca | tggaacttga  | tgacttcagg  | 960  |
| gctctgctta | ctccacagg  | atcagagctg | ggtaggggg  | agttcaaacg  | catcatgag   | 970  |
| ctggctgac  | ccaaacctag | gggcttgg   | accttccaa  | cttccatoga  | cttccatgct  | 980  |
| ggggagacca | ccgacagg   | caaggctgac | caggctatcg | cttcttccaa  | ggctttagca  | 990  |
| ggggacaaga | acttcacaa  | agctgaggag | ctggggagag | agctgggggg  | ggaccaggcc  | 1000 |
| gagtaactga | tggggggat  | gggggcat   | caggggcttg | acggcggtg   | gggtgcttcc  | 1010 |
| gactagaagt | ctttctccac | ggcttggat  | gggagagag  | acctgtgagg  | cccgagagac  | 1020 |
| ctgacccaac | accccgagg  | ggttccagg  | ggggcttggg | cagggccaca  | gtcccatgac  | 1030 |
| ctcactctgt | atctatgaa  | agcactctct | gcagctctcc | gggggtgggtg | gggtgggtggg | 1040 |
| cagggagggg | ctggggcagg | ctctctctcc | ctctctcttg | tggggtgggc  | aggaggtccc  | 1050 |
| ccgacagg   | ctggggagac | ctggggcag  | cgctctggg  | ctgggtaaata | tgctatgatg  | 1060 |

```

gttgagtttt ttttaacaaag gagggttttg tggatctcca gaggatcaat ggctcttttt 2640
atggtttggg atggtttcaat aatgttgggt ctctctcttt gctctggagg ctctctcaagg 2620
cttctttttt ctagggtttaa gttctatgtg ctctgtctag gaactgcttg ggctatcgga 2660
gggtttagaa aggggtttat tttttctga aggtttggga tttttctaga cctctctctt 2640
ctctctgctcc agactcaact gccattggca ggagatggcc tttttctaga aatctctgct 2700
ttgctagcaga ggaggtgagt tggctagatg gggctctctg aatggatcca tttttctaga 2760
ggctctgctta gctggtctca ggtctcaaga attgctagaa cttttttttt aggggtctga 2620
gttttttttt agttgaaaca aatgggtg 2646

```

```

<210> 61
<211> 572
<212> DNA
<213> Homo sapien

```

```

<400> 61
acccctgggtt atggttgaga agaggggttc cagctctctg gctctctgct ctttcaactgc 60
atcatcgctt gcaatgacag ctctgtctga ctacggctca tttttctaga gctagggggc 120
ttcaatagtt aatgaaaagg cttctacttt gaagtctaga aattttggtc cagctctggt 180
ctctcttgaga atttcaactg tggctctggt tgggtctaga aattctctat aaggatctga 240
ctctcttttt tgaagctaaa aacagctcag ggtctctcat aagatttttt ttttctcttc 300
agtgtgcaaga gatgttaggc atctctctca actctctctt gtctaaagaa tttttctaga 360
gatgttcaga gttttctcat ttaggtgctg aatctctctt tatagctgct tttttctaga 420
ctctctctct tgaactcttt ggtgtgtgac ctgtgtctag tttttctctg ctgtctctg 480
gtctctctgt ctgtgtctat ctctaaagtt tttttctctt aggtctctct tttttctctg 540
ttcttttttt tttttctctt cagtgagcag aa 572

```

```

<210> 62
<211> 550
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc feature
<222> 1581... 5811
<223> n= a, c, g or t

```

```

<400> 62
acccctgggtt atggttgaga agaggggttc cagctctctg gctctctgct ctttcaactgc 60

```

```

atcatgggtt gaaatgaaa atctgtggga tttttttttt tggaaagaga gaaagagggg 120
tttaattgttt aaaggaaaagg ttttatatct gaaggaagaa aatttgggttt agtctttggg 160
tttttttggg atttaattat tggctttgtt tgggacagaa aaatctaat aaggacagaa 240
ttttattttt tgaaggaaaa aaaggtggag ggggtacat aagatttttt ttggaggttt 300
agttggaaaga gatgttaggg atctcttaca actcacact gtcaaagaa taccagggaa 360
gatgttcaga gttttacat ttagggtgtg aacaaacctt tatagctgtt tatatcttga 420
cttatttttt tgaattcttt ggtgggtgac ttgggtcagt tccggccttg ctgacacctg 480
gtctctatgg ttgggtatat ctctaaagttt tcttggtttt aggggttagc ctgtttcttg 540
taacaaataa tttttttttt ttagtggaga gaagtaatgg ttccatctgg ctgtatccag 600
catttgggga gaagccggtg aaagagggga tctaagagat atgtttaatg 660

```

<210> 63  
 <211> 591  
 <212> DNA  
 <213> Homo sapien

```

<400> 63
acaaaggtgag ttgggatttt aatcatgggt tcaatttaaa ggcaaagggt taatcatggt 60
ttcggtttaa agatcargcc gtccagttag cctttgttta tgatctaaag gtgtttgaca 120
gtttgaaatc caaaaggagg tcaactgagg tatggagaga tccacatatt gggctaaaag 180
ccagtcacat tttagctttt ggaaagttaa gtgaaaaatt gatatcgtct gttgtaaaaa 240
tgaagcaatt gccaaagctt tccattgttc ttttgcactg aattaactca ctcttaataa 300
aaggaccgac acagggcctt aacgggtgg tttttgtgaa gggcccacct gtgtatcttg 360
ctctgatggt tgtttttgtt tatagctcaa tgatgctgat taaatgagtt taagtgtgct 420
ggacagtggt gcacaaaacta ggccatttgt gtgttttttt tttttctctt cctttgtaga 480
ttataaactc agctgttatt ctaacaaaaa atttttattt cagaatttaa ggtagtggtt 540
ttctctcaaa atgatattgt ctacagatg gtctaggggc agccagtgga t 591

```

<210> 64  
 <211> 542  
 <212> DNA  
 <213> Homo sapien

```

<400> 64
ttcaactaga attaacattg gaggtcaatt ttgggtattg acataaatgt gagattaaag 60
ttgaaggggc cagatatctc ttacagatga ctacaaacac gggagatgtc tctgttttgt 120
tttcccatgc atgtaaattt aagtatttat aaacagcatg ggccaaaagg cagtcatgaa 180

```

gaggttctag gataaaggtt ttatctttat ttatctatg tataaatatt aaattctagt 340  
 gatttggtg gttctttaga attatctatg attatctatg taaaatattg atactagt 341  
 tgaggaaagt ttaaaagata attagtgta ttatagata aaattcttagg attctttatg 342  
 aattcttgag tgcctaatg gttagctctt aggttgagt ggcctctctt tgcctctaga 420  
 caactctctt ttaaaaacta tgggtcagatt aattctctct aatatcagtt tactctcaaa 421  
 aattctcctt accggcgctg agcgagctg gttcgagggg gattgatgaa ccaggcggtt 540  
 ga 542

<210> 65  
 <211> 586  
 <212> DNA  
 <213> Homo sapien

<400> 65  
 aaattctctt tgacatctct cagggttata ttttttctt ttaactcata tgcaccatt 60  
 aggtttttta aatctcttta aatatcttat ttctagtgta ccttgagatt cctttttctt 120  
 tcttttttgg ggaaagtctt gaaaatgttt tgtttttgtg tatgaaaaga atagctccac 180  
 taggaagaag gggagtgttt ttggtgaaat aggaagaag tctgaaaactg taggagagga 240  
 tgggaatatg ggcgttgata aaaagaaata gaggaggggg gaaatactct tccataggaa 300  
 ggcttccagc tacaagatt tgaagacatt tttctgggga agtaaaaacac taaatcagca 360  
 ttattttcca aagcccagaa aataacttaa tagattgttt ttaaattact gtttcaatto 420  
 agcttggtgaa gatattctga atagttcatg tagaatatct taatatcttg tagatacttt 480  
 tgtataaata gttgcctagt agaaatgttg caactgtgtc ttttcaaagt aagtaaatag 540  
 gagagctagt atagcgcttg aaagaagtaa gtaggttata ttgtac 586

<210> 65  
 <211> 586  
 <212> DNA  
 <213> Homo sapien

<400> 65  
 gtcaaaattt tttttgatat ctctcagggt tatatttttt tcttttaact catatgtcac 60  
 cattaggttt ttaaaatctt tttaaatatt ttattttatg tgttaacttg agttccttt 120  
 ttactctttt ttggggaaat tttgaaaaa gttttgttt tgtgtatgaa aagaatagct 180  
 cactcaaggaa gaaggggagt gtttttggtg aaataggaaa gaagtctgaa actgtaggag 240  
 aggaggggaa tatggcgctt gataaaaaag actagaggag gggggaaata cttctccata 300

```

ggagggtttt aggttataaa attttgaga attttttttt gggaggtaaa aattttaaatt 160
attttatttt ttggaagttt gggaaataaa ttattagattt gtttttaatt taattgtttta 180
attttggtttg tgaagatatt ttgaatagtt ttgttggaat attttactat ttgttgagata 200
attttgtata attttgtggt agtggaaaaa gttgtttttg tgttttttta aattgatttaa 220
ataggagagt tagtatagtg ttggaagaa gtaagttagt tatattgtaa ttctttgttc 240
tacctagggg taaggactcc tttagcatt tatttaacct ttattatttg tagagaaatt 260
atttagatgt aggttgagta ttctaatct gaaaattctga aacacaagat gctctaaaaa 280
tcaaaaagg atgctcaagg gagataattg tttagactat ttgagactta gattttcaga 300
ttagggatgt tgaactggta agtataatgt agtatttcca aaattctggaa gaaaaaaaaa 320
aaaaaaaaat gagcggtc 340

```

<210> 67  
 <211> 593  
 <212> DNA  
 <213> Homo sapien

```

<400> 67
gtgctttttt tgccttatgt caagtttaaa cacaattatga atctccatt ctcttaaaat 60
agaggctaaa aagaggacca ggtgttcaca cagaatttgg cagatgatgt tggccagtct 120
gaacgtggag agpattgaaa atggctgagt agggagggat gttgaggggt gcttgggact 180
ttagnagctg ctaattttat agaattggct aaaaataaaa ttgtggatag atcttgcctc 240
agccttttct atctctggtc ttggacaga gaattgttta agtcatttca tgtctattga 300
gttatcttgg ttaatcacta gtacagattg cctctaagtg gtttttgcac ctctttttta 360
ttatcgcttg gtacataaa ttctgggaa tttagtttcc ttatttaata ctctcaaggt 420
tgaatattaa atcatatgaa caggatttgc aaactataaa gcaatgctat gaatgtaagg 480
tgtcttttat ttgacagtta ctgagtcttc aagggtcaat tgtctactca atacttggtt 540
taactgggta ggattcatt aggggaagcag aacctttata aatattgttg aat 600

```

<210> 68  
 <211> 578  
 <212> DNA  
 <213> Homo sapien

```

<400> 68
gggaacagaa gagagaaaaa aaactatggt ttaactaaa agacaaaagg tgaagcaagg 60
ttgggatttg tccacagcct aggggggaa ttactgtgtc ttgagagtac cttgcacac 120
agtgccttgg tctgcctctc catcaccag atggaagaga acgtgttccg aaaggtagag 180

```

```

TAAATACAG AGCTTCAAA CTGTATGAA GGGCTCTGGT TTAGGGGATG TAAAGAGTC 140
AATGATGAA GATACCTT CTGGGAGGAA TGGGAGGT GAGGTAGG TGGGGTATC 160
TAAACAGCTC GTTCTTCAAT AATCAAGGGA AACTCTGT TAAAGATGGT GGATCGAAT 180
TATATATTA TCTCTTCTCT CACCAGAAAT GTTATGAAA GGAAGGGATT TCTTTTCTAA 420
GGACAAAATC AATATGAAA AATAACAGGA AGAGAGATGG TGGAGCAGC ATCATCTTGG 480
GGGAACCTGA AGAATCCAA AGGCAAAAGG AGGGCAGCG GAGAGCAGGA CAGGTGGAAA 540
CTGACTGAAA AGGCCAGGA AAGCCAGTGA CCACTCTG 576

```

```

<210> 69
<211> 730
<212> DNA
<213> Homo sapien

```

```

<400> 69
GGGAACAGAA GAGAGAAAAC AAACACTGGC TTCACTAAAG AGACAAAAGC TGAAGCAAAG 60
TTGGGATTGG TCCACAGCCC AGGGCGGAAC TCCTGTGTCT CCGAGAGTAC CCTGCCACAC 120
AGTGCCTGCG TGTGCCTCTC CATCACCCAG ATGGAAGAGA ACGTGTCTCG AAAGGCAGAG 180
CAAAACAACAG AGCTTCAAAG CTGTTATAAA GGGCCTCTCG CTTGGGGTTC CTAGCAAGTC 240
AATGACAAAA AGCACTCTCT CGGGAGTACA CTGGAGAGGT GCAGTCAGCC TACGGCTATC 300
TAACACACTT GTTTTTCCAT AATCAAGGGA AACCTCTGT TAAAGATGGT GGATCGAAT 360
CACATATTA TCTCTTCTCT CACCAGAAAT GTTACTAAAA CGAAGGGATT TCTTTTCTAA 420
GGACAAAATC AATATGAAA AATAACAGGA AGAGAGATGG TGGAGCAGC ATCATCTTGG 480
GGGAACCTGA AGAATCCAA AGGCAAAAGG AGGGCAGCG GAGAGCAGGA CAGGTGGAAA 540
CTGACTGAGA AGGCCAGGA AAGCCAGTGA CCACTCTGT GCATCCCGAA GAATGCCCCA 600
GAAGTCAGG CCGTGGAGGT GCTGAGCGG TCTGGAAGTG TGGGCAAGGT GACAGTGAAG 660
AGAGCTGAAC TGTCTGAAAG TCTCTTCTAG AAGCAATGAG CTCATCCCGG CACAAAATCG 720
CCAGTTACGC 730

```

```

<210> 70
<211> 408
<212> DNA
<213> Homo sapien

```

```

<400> 70
GGGGCTTGTG GTTACGATG GAAACCTGGA GAAGTGTGG GGTACATCA TCTTTCTTTT 60
CAACAGACTC GGAGTGTCTG CCGTGGGCGA GGAACCTGTC CTGACCTCCC AGATGAGGTG 120

```



```

tgggtctagc aactttcttt ggggaagggaa ggaaggggtt ggggaatggg ggaagctggg 160
tatgaaag aactttcttt tgaaggaat attttcttt aattatttaa ggtctgtatg 240
tggtagaagg tggtagaat ttgtatara ttgggtatc tgggtctaac aaacttttt 320
gagatggga ttatgttca atttcagaa atgtgttaa aagtcacaa caagctgtgt 360
tgaatagag atgtgtttt ttatagaa ttgttaatat aaatctga 408

```

```

<210> 71
<211> 430
<212> DNA
<213> Homo sapien

```

```

<400> 71
ggggcttggt gttaccgatg gaaacctgga gaagtgtggg ggctacatca tctttcttt 60
aacagactc ggagtgtctg cctggggcca ggaactctgc ctgacctccc agatgaggtg 120
tgtgtctaga accgttccct tgggaagggg aggagagggc tgggggtatgg gggagcctgg 180
acatgaaaaa ggactaccct ctgacagtaa catttccctt ctacttattc aaggtctgta 240
tgtgcccaga cgggtgcctag cactttgtat acattagctt atcccggctc tcacaaacca 300
tctctgagat gggccattac cagtgtccaa atttcagac atcgtgtcca aaagcccaac 360
ccaagcctgt ctgcaccacg agcctgtgac cttccaacc caagaactgg ttaataaatt 420
aaaatctgaa 430

```

```

<210> 72
<211> 239
<212> DNA
<213> Homo sapien

```

```

<400> 72
ggggagacaa acataccctc ctgacctggg ggaagtgttt cccctgctct tgtgtccaa 60
ggggagttgg caggactgtt agaaatgagg gatggggctc catttggccc accatgggct 120
aaatctccag agctggagag tagtaatttc tcccctctgg gagtgggtgtt gattctcttc 180
tctctagagg tcaagtcttg ggtagcagg tggagaacag gaactctgagg gacttccat 239

```

```

<210> 73
<211> 333
<212> DNA
<213> Homo sapien

```

```

<400> 73
ggggagacaa acataccctc ctgacctggg ggaagtgtat cccctgctct tgtgtccaa 60
ggggagttgg caggactgtt agaaatgagg gatggggctc catttggccc accatgggct 120

```

aaatctctag agctggagag tagtaatttc tctctcttag tagtctctgt gattctcttc 140  
 tctctagagc tctaggtctt aggttagtag ctggagaaac ggactctgac ggactctcat 141  
 cttagctatgc atttagggat ctatggaggg tgatgggcca gctgacacat ctaagaaatc 142  
 tgggttaggt ctgtagggg ctactgggtg gtt 143

<210> 74  
 <211> 636  
 <212> DNA  
 <213> Homo sapien

<400> 74  
 ggta.tctca atattagagt ctgcttctaa caatataaga gaatagtaac tattcaagta 60  
 ctggttaaga gtataaaaag gagaaaatga ctgttcttca cttagagaag tacataaatgt 120  
 agcgaaggat acaaaaacaa atataaaaaga aagaatataa aaataagtgc agctataaat 180  
 attataaaac aaattataag aggagttctt tagcatctat ctatctgtta aagttttaca 240  
 ttaatgtgtt tgaagtttat tttatttctc agtaactctc tgaggaagct acttaatgaa 300  
 taataaaaact gagaacttggg actattaagt tttttgccc tatagctctc aagttgagaa 360  
 ctgagattta aagctgggtc atgggagaa aaagtcttct ctcttctctg aacattactt 420  
 ggggcataaa aaagcaagag gctagtttgt atggatgagg ttttatagag aaggtcttct 480  
 agggaaaaatg aaacttgaag aacaaaaaaa taagagatat aagaagttga acctctctgc 540  
 ttgactatc tgtgggaagt gggaagatta tagattatc aggaatatta gaggttaaat 600  
 ctagtctctc agcaatattt gttgagtgtc tactga 636

<210> 75  
 <211> 244  
 <212> DNA  
 <213> Homo sapien

<400> 75  
 ggattattct tttctcactt tgaaatgctt aagaacagac ctagttaaat gcttatatcc 60  
 taggcagtga atgatttgat ctctatagga atgagctggg tgttatcaca ctagaatttg 120  
 ggggtaaggt acagatgcta atatagggac atagaagatt ttttctctcc aaaattagtt 180  
 aagattagca aatagcatta aggcagttaa ctctgatgaa atacttagca gaatgggtgc 240  
 atgt 244

<210> 76  
 <211> 359  
 <212> DNA  
 <213> Homo sapien

<410> 76  
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 taaggatgga atgatttgat ctctatagga atgagctagg tggtaataaa taagiatatg 120  
 ggggtaaggt atgatatgta atatatagga atagaagatt tttctcttca aaattagtta 180  
 agtatagtaa ataggattta ggagatgtaa ctgtagtaaa taattagtaa gaaatgggtg 240  
 atgttatctt ggaaatgata ctctctctct atctctctct taagcattct ccattcctaac 300  
 catttgggaag ctctgggtgct tgatgcattg tagtattttt tttttctttt ctcttgagaa 360

<210> 77  
 <211> 142  
 <212> DNA  
 <213> Homo sapien

<400> 77  
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 gcagtcctgg gagcttctgt ctgcagagca ccccaacctc agctccagag agtgggggga 120  
 ctgtggagtg ggggtctctg ca 142

<210> 78  
 <211> 72  
 <212> DNA  
 <213> Homo sapien

<400> 78  
 ctgaatgaca gagtaagaat ctctctctct caaaaaaaaa cagagagaga gagtttagag 60  
 accaggcaca gt 72

<210> 79  
 <211> 529  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (234...388)  
 <223> n= a, c, g or t

<400> 79  
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 gaataaccca attgtttctt aacaatggaa agatgtggga tctagagaga agtttttggg 120  
 ttgtttcttg ctatcaagtg actgctcttc atgtgataaa attggagagg tgaactgaga 180  
 gtctctcatt acaaatatag ctgaccttat tgcctactga attctgatac tgannnnnnn 240

```

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 111
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 111
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnnag taccagagtg cttaacaaagg caatctgag 421
tgggtatatt ggtcttcttg agaatatata tggaggggat ttgtcaataa ctctctgata 421
tgaataagat ctcaaatata taagggaatt agaatataa tcttgatgg 529

```

```

<210> 80
<211> 567
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> 12...12
<223> n= a, c, g or t

```

```

<220>
<221> misc_feature
<222> 34...34
<223> n= a, c, g or t

```

```

<220>
<221> misc_feature
<222> 46...46
<223> n= a, c, g or t

```

```

<220>
<221> misc_feature
<222> 101...101
<223> n= a, c, g or t

```

```

<220>
<221> misc_feature
<222> 107...107
<223> n= a, c, g or t

```

```

<220>
<221> misc_feature
<222> 137...137
<223> n= a, c, g or t

```

```

<220>
<221> misc_feature
<222> 140...140
<223> n= a, c, g or t

```

```

<220>

```

<211> misc\_feature  
 <212> 112..212  
 <213> n= a, c, g or t

<211>  
 <211> misc\_feature  
 <212> 211..211  
 <213> n= a, c, g or t

<220>  
 <221> misc\_feature  
 <222> 12371..1237  
 <223> n= a, c, g or t

<400> 80  
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 aggttggaga ataaagtgtg gcggtgttcta ggcagagggg ncaacantgt gatcacaagg 120  
 agagagggaa ggaaaacnch tgggtgtgcag aaggaattat gagcacttag gtgttgcctg 180  
 agcttaaaagc tgaataggaa gnaactaactn tgtagccaga gataattggc aaaggtngaa 240  
 tcatgaaggc ccgtgttttg ccaggtgaaga catatttgtt acacacagct tgttatcttc 300  
 attatttgtg tattgcattt tggattggag ccgtctgata aggttttgtt tttagacaaa 360  
 tccctctatc agcagtgggg aaggtggatc ccagggtaag aattctgaag catgaagacc 420  
 agtcagatgg ccgttgcagc agtcaggca aggacaatga ggctaaaatt aagactggga 480  
 gggtyaggat ggggaagaga aactagagcc aagaaatagg tggttttaaa aagaagtatt 540  
 tagagggtaa aaagaatact aactggc 560

<210> 81  
 <211> 4158  
 <212> DNA  
 <213> Homo sapien

<400> 81  
 atgagccacg gggccgggac cttaagaagt cttaaagcca tctatgatgg gctaattggc 60  
 ctcttcacga caagccatgat tgcactgta agctccagag gaaaaaatgt ggttatagag 120  
 tatattaaaa tatatacaat tgaaaaggaa gatgttcatt ttggcaagca gaagattact 180  
 aacagaatgt taaaattaaa gtctggactat gaagagagtc cagtgtacca agtgtacgtg 240  
 caagccaagg acctggggcc caacgctgtg cctggcgaat gnaaggtgat agtctgagta 300  
 ctggatgcta atgacaaagg gccagagatc agcttcagca ccgtgaagga agcggtgagt 360  
 gagggtgggg cggccggcac tctgggtggc ctttttagcg tgaactgacc cgactcagag 420

[illegible]

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| attcagaag  | ctcaggttag | aggagagg   | ctctttcca  | ctcttgga   | agagaagg   | 2261 |
| ctcagaaga  | ctctggagag | gaagagggtg | gctggactgc | tgactaat   | ggagagggt  | 2341 |
| ctcagaaga  | ctcacttgag | tgatcagct  | gctcagct   | ctcagaagtg | tggtattga  | 2400 |
| gggtgagct  | acacatag   | gtaggttag  | attctttta  | ctctcaga   | actctcttc  | 2460 |
| ctcagaaga  | attcttgag  | ctcaggttc  | ctcaggttc  | ctcaggttc  | gagctctaat | 2520 |
| ctcaggttc  | ctcaggttc  | ctcaggttc  | ctcaggttc  | ctcaggttc  | ctcaggttc  | 2580 |
| gagaattcat | acgtgaaat  | ccaccttcac | ctcaggttc  | agagaggttc | gtctaaaaa  | 2640 |
| ctcaggttc  | ctcaggttc  | ctcaggttc  | ctcaggttc  | ctcaggttc  | ctcaggttc  | 2700 |
| ctcaggttc  | ctcaggttc  | ctcaggttc  | ctcaggttc  | ctcaggttc  | ctcaggttc  | 2760 |
| aattatcttc | ggctacataa | ctcaggttc  | ctcaggttc  | ctcaggttc  | agcaacacct | 2820 |
| aagtgctcat | aattcctctc | gcacacacac | ctcaggttc  | ctcaggttc  | ctcaggttc  | 2880 |
| ctcaggttc  | ctcaggttc  | ctcaggttc  | ctcaggttc  | ctcaggttc  | ctcaggttc  | 2940 |
| ctcaggttc  | ctcaggttc  | ctcaggttc  | ctcaggttc  | ctcaggttc  | ctcaggttc  | 3000 |
| aggtgtcttc | actcaggttc | ctcaggttc  | ctcaggttc  | ctcaggttc  | ctcaggttc  | 3060 |
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| cagagtcaca | ctcaggttc  | ctcaggttc  | ctcaggttc  | ctcaggttc  | ctcaggttc  | 3540 |
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| aaaaagcaaa | gaacccatgt | gggtcagttc | ctcaggttc  | ctcaggttc  | ctcaggttc  | 3900 |
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[illegible]

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|      |    | gtgatcata   | tagggtctta  | gtatagacta | ccatatttgc  | cagcatttta  | gaantagtc  | 300 |
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|      |    | agagaactgag | tatttgcta   | agtctctgt  | gagcctgcag  | tgtaaagtaa  | aacctattga | 420 |
|      |    | gtgcacaaaa  | aaatcatgtt  | acaattacta | caaaatagag  | aaacacacta  | ggttaccaag | 480 |
|      |    | atgtcaaaata | atggattaa   | ggaagaaagt | aatgtacctc  | cttggttagcc | tacataatcc | 540 |
|      |    | accttaattt  | gttatttctt  | atttaactat | tttgtctatgt | cttaagaaat  | gtatattaag | 600 |
|      |    | tgaaaatgga  | tgcataaaaa  | taaaaaaga  | gaaatgtata  | tatacaagct  | acatgaaaat | 660 |
|      |    | at          |             |            |             |             |            | 680 |

|   |   |   |   |   |           |
|---|---|---|---|---|-----------|
| / | / | / | / | / | 67        |
| / | / | / | / | / | 684       |
| / | / | / | / | / | DNH       |
| / | / | / | / | / | HONG KONG |

| Year | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 |      |

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<212> DNA
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<223> n= a, c, g or t

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<213> Homo sapien

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<222> 191 ... 191

<223> n= a, c, g or t

<400> 96

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atgggtgcc cgggcacctg ccttggggga cagagtaggt ttccctgtgag ttggtcgggg      360
ccacpgetgc cgcctgcaact gccctggggg acagactagg ttccatgtga gctggtcggg      420
ggcatggctg ccgcgggcac ctgccctggg gcacagagta ggtttcgtgt tgcctgggaa      480
attaaggcgt aattttgatt cagtttttcc taaagaagca ttctgcattt ttatggcttt      540
tgcagttcgg gagaaagctt ctctattttg gatgcatttc agaagggcgt tctattaaac      600
atgaattctg aaacag                                     616
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<210> 97

<211> 1636

<212> DNA

<213> Homo sapien

<400> 97

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ctctctgcag attcatgttt aatagaaggt cctctgaaa tgcataaaaa atagagaagg      60
ttctctccga attgcaaaaag ccataaaaaat gcaaaaatgtt tctctaggaa aaactgaatt      120
aaaaattaggc cttaattgttc caagcaaatc gaaaacctac atgtgccccg gggcagggtg      180
cggcgggcag catgggccccg accagctcac atgaaaacct gctcgtgccc cagggcagtg      240
cagggggcag ccgtggcccc gaccaactca caggaaacct actctgtgcc ccagggcagg      300
```



tgggtgggtggg aggtatgggtt ggaagagga tttaggaaa taattttgtt tttaggggca 370  
 gttgtagggtt ggggaggtgg tttagatgag tttagggaa aattatgttg tgggtgggtt 420  
 taggtgtagg taggaggtat gggggaggtt aggtcagagg aaatttagtt tttgtgttag 480  
 ggtaggttag ggttaggtt tggggaggtt aggtcagagg gaaatctact ttgtgggaaa 540  
 gggtaggtgt ggtgggaggt tttaggtggg attaggtcac agggaaacct ttgtgtgggt 600  
 tagggcaggtt ggggggggta ggtgtgggtt ggaacaggtt acaggaaaac tactctgttg 660  
 cctgggtcag ggcaggtggt gggggcaggt ggggggggta ccagccccc cagaggtcag 720  
 ttgtttctga ttgtgtcag gtacaggtt taggggggtt ggggggaaga ggcctctctt 780  
 cccgacactg tccccatcac ggggggtccc gtgtctcttg ggggagccat cactgggtcac 840  
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 tgctttctgg agcaaagctg cccccccac ccaggagggg ctgatgactg agctcgagtc 960  
 ctgtggaggtt aggcaggtta caggacctg cctgcccact gggtcagaaa gacctccct 1020  
 tgggtgcca gggccctggt caggtgtggg gcaactccag gacctgggtt agcggaaaga 1080  
 gttccgggag actggtcagg ccaggaaagt ccaggtgggt tgggagcccc ggtcaggtga 1140  
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 ggtctctgga gtgggaagtgt ggtttgtggg tccccacaa actggaatct tccctccact 1260  
 cccaggaggtt ggggcaggca gagccaggtt agcagaggtt cccggaaggt tcaggaaaca 1320  
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 ccccatccac cccgtgcacc ctgtctacc catctacgtt caattccctc tgcactctca 1440  
 actttccgga ctcttgacct tggaggaggt gaattccggc ctggccaggt gtctgcagtg 1500  
 tgggaccttg tctctctca cgtgggaggt ccagggtggt cgtcagtggt ggatctgtac 1560  
 cctgccccct acagagatct accatgcaga gaactcagac ttggttggga cctgggcagg 1620  
 cccctgggtc cattga 1636

<210> 98  
 <211> 636  
 <212> DNA  
 <213> Homo sapien

<410> 98  
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 aggggttttgt tttggactgt aatatcttat agaaatttta ggattacttt cataaaaaatt 180

ttttaaatat ttagaggttaa tttaagaaa ttttttgttt taaagttagg aagtttaattg 440  
 ttttaaatat ttgtttttaa gttgttttga ttgtttgatt ttgtttttta ttaatttatat 460  
 gataggtttt tgggttagga ttttttgtgt gtttaataat gtttttgttg tttaattaga 480  
 gtttaatttt ggaatttata ttttttagaa ttatttggaa ggtttgggtg ttggtatgaa 420  
 ggttttataa tttagaaaaa ttttttttgt tagactatga gtatttttaa ttttttaaat 460  
 gggtttaatt gatgggtggg agtttttgtt ttgatttttt gtttataaat taatgatggg 540  
 ttttcattgt ttgatttttt ttggggatag gttttttaga ttacaattag ttttaattag 600  
 ttggttgggt ggaatgagt gtaattttag taagttaga 620

<210> 99  
 <211> 1253  
 <212> DNA  
 <213> Homo sapien

<400> 99  
 aaggtactgc cttaaagggtg tcatctttaa tagcaactgc tgtttttcac tcaataagttt 60  
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 tctaataga gtgataagat attctctact ttgtctctat ttgaaaaa agctacratg 180  
 aatattataa ttacattctg ttatcttgtt taagcatagt aatattttaa gtgatttaag 240  
 gaaaataatg tttaactttc aaaagatgca ttcattttat ttatttttat aaaaaaactg 300  
 caagtttaat atatacattt tgagtgaagt cattgttaat taagggatgt tacagctctt 360  
 tttgtactat gaagagaact tatgatcttc tttctgttaa gggtagtatt tacataaaaa 420  
 ataatttcac caaaccagag agaggccaac agacattaca tttcatctca ggtgggttcca 480  
 agcagagatt atcttagaga gttctttgac catttaattt ataaataatt ctacttgtgt 540  
 tttctttcta tttaactag tttctctttt caacttttaa aaaatgttgt gttctctatt 600  
 caggggtttg ttttggactg taatatitta tagaaatttt aggattantt tcaaaaaaat 660  
 ttcttaatac tttagagcta attcaagaaa cctgtgtgca ttaacgtcag gaagttaact 720  
 gtccacata attgccttgg agttgtcttg aattgttgat tatgggtctca aataatttct 780  
 tgacagggtt ttgggttaga atttttttgt tgcacacac ttgtcttgtt gagaatgtag 840  
 aggtacattt ggaactttat atttttatga aacatttggg aggttggggg ggttgatggt 900  
 aggtttctta atcagaaaaa atgtattttg tttagattat agtatctcta atttttaaca 960  
 tgggttaatt ggaagggtgg gattatttgt ttgatttttc ggtgtataac taacgatggg 1020  
 gtttcattg ttgattttt ttgggggata ggttttttag attacaatta gtttaaat 1080

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ttctgggtggc ggggacatc attggaatc tggcatttc ggaaggcga ggggaaggc 114
atggcttgag ctggaattca agatcagct ggggaacat ggaacaccc gctctacca 120
aaaaaacctc aggtggaatc ctgctctgg ggggaacatc ctatgggac aat 126

```

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<211> 100
<211> 147
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> 17761..17781
<223> n=a, c, g or t

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<400> 100
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cactttacct ctacaatgcc cgttcgatgc tgacaatgcc ttccatatgg tgggcattca 120
acagcaacat tctgtgggag tatagatggc tatgactaag gtagtgtgag tgggtggctct 180
tataaaatat gctctgcttg ccttagggga aaatagttcc ttaaaaaact tctcatccaa 240
ctcttcagtg ttaagatata taaacaaaag tgaacacatc tatacacaac agtaatgaca 300
cttgaaagaa ttttttaaca gataaagaac agtaactcca tggtttatgt aacaaacaa 360
taggaaggag agaatttaaa attgacacac tcccagagat gttatatctc aagttatgaa 420
tgtgtgtgag ttgaagaaaa atcagcttcc tcatattact cacatatata tattattaca 480
taacaatgtg ttaaatggga ctacagtcaa tcaaaagagt attgcagctt ctgaagggtg 540
cagactttta acttcagatc attgcttaac gcttgggaaa ccttgggaa cagggcaagt 600
caatttaacc aagcttttgc tttttagcca gctgtgatgg tggttcttac atagtctgga 660
taaatccaaag aatactttca tggccttagt gaaatttgc cttttgaaat tattaggaaa 720
acgaaataca cattatgaaa cttctatcac tctaaagaa aggggaaaaa ctatttaanaa 780
tgaagctctt atttactaat gcattctcat ttcaggagca tttggctaaa ctggggacaa 840
aaaacaaaaa cttgtttctta attaacaaaa gaactagaaa gaagctcata tgaaagcacc 900
acctgtgtt cagtaagctt caggatagct ctgttgacag cagggcattt agagagtcac 960
aagtatagtc atgtatcaat ggggagggaa gaatcttga ggacatctag tttataatct 1020
ttattatctt ttaggtgtag aaaagagatt aaagatcata gaagtcagaa taaatttgtta 1080
aaagttctca tagtcaaaa agtcaagtaa tggcattgcc cagactccaa aatcttgacc 1140
agaatataaa tcaaccaattg ttggtttaaa ggggttattt gtgaatcatt ttcaaaaaaa 1200

```

agaaagtaaac ttttttggtg atttaccatt ttaagaaaaa taattttcca agatcatttg 1280  
 agatcatttg aggaatgcat gggtatcccc taattgacca cttaaaaaatt gtaagaaaaa 1320  
 aaaggtttag ggtaatttgg tttttttaga gtaaaagtat ttttaattta ggtttggata 1360  
 caacatttag gggtggagat ttttagtcaa tgggtttaat taaagacctt gttttttttt 1400  
 aaatttataa actaatataa atttataagg ttaaaaaaa 1440

<210> 101  
 <211> 2313  
 <212> DNA  
 <213> Homo sapien

<400> 101  
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 ctgtgttttaa aagaatagga caaggcaaac actaaactga caagtattca acaagaatgt 120  
 ctttagataa ctttagaata tatcacttta tacagcattg ttttttaaga taaaaaaatt 180  
 ggagatagtt ctcaagcacc ttccagtcct tggttgtgaa ctttagcccc agataggttc 240  
 aataatggat ttttaagtcct cttaggcggt ggagtgcacc ttaacaaaaca ccaatcagga 300  
 cttttattag taagaagaaa actaggaaaag ttgttggttt ataacattaa tgggtctgcta 360  
 cttttaactt tgatttttca tggatttttt aaaagtaatt tcaagtgtta gagacaattt 420  
 aggcnaatca taacatattt tatcagagac tgtgcacaaa gggcactttt aggttagctt 480  
 attctccaca ggtttctata ataaatcatg aggtgttaag agaataattgg tccaggaatt 540  
 agaaaagtgt ggaattttaca atcacctaaa gcaatatgac ttttaagaaaa tctgttaact 600  
 cccatcatct ccttttcccc tctgtttaac atttgggtgg gatagattta gataagttga 660  
 cattagtata gatactttac tattataaga ggttggtctt ggtagaactc tatgattcta 720  
 aagtgtgttg actacaagtg tggacaggtg taatcacttt acctctacac tggccggtgc 780  
 atgttgacac tgcctttcat atgggtggga ttttaagaca acattcctgt ggagtataga 840  
 tggctatgac taaggtagtg taagtgggtg tctttataaa atatgtcttg ctgtgcttag 900  
 gggaaaatag ttctttaaaa acgttctcat ccaactcttc agtgttaaga tatctaaaaa 960  
 aaagtgaaca catctataca caacagtaat gacacctgaa agaattcttt aacagataaa 1020  
 gaacagtact cccatgggta tgttaacaaa caactaggaa ggagagactt taaaattgac 1080  
 aacatcccag agatgttata tcttaagtta tgaatgtgct gcggttgaa gaaaaatcag 1140  
 tctctcatat taactacata tatatattat tatataacaa tgtgttaaat tggactacag 1200  
 tgaatcaaaag agttattgca gcttctgaag gtgacagact ttttaacttc agatattggt 1260

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taattgcttgg gaaatcttgg gaattatggt tagtcaattt aaacagattt ttgtttttta 1320
gttaggttgg atgggtgggt ttacatagtt tggataaatt caagaataat ttcatggggt 1360
tagtgaaatt tggctttttg aaattatttg gaaatgaaa taacacattat gaaactttta 1440
tcaattctta agaaagggga aaactattt aaatgaagt tottatttat taatgattt 1520
taattttagg agtattttgg taacttgggg aaaaaaaata aaactttgtt tttaattaac 1560
aaaagaacta gaaagaaggt catatgaag caccacettg tgttcagtaa gtttcaggat 1620
agctctgttg acagcagggg atttagagag tcccaggtat agtcatgtat cactggggag 1680
ggaagaattt ttgaggacat ctagtctaca atctttatta tttttcaggt gtagaaaaga 1740
gattaaagat catagaagtc agaataaatt tgtaaaagtt ctcatagtca aaacagctaa 1800
gtaatggcat tggccagact ccaaaatctt gaccagaata taaatcacca attggttggtt 1860
taaggggggtt atttgtgaat cattttccaa aaaaagaagt acactttttg tgttaactta 1920
catttcaaag aaactttatt ttcaagacca ttccagattt ccttaggaat gtatgtgtta 1960
cccataattg accacttcaa acttgtaaga aaaaaaatgt tatgggtcatt ttgtttattt 2040
tagagacaaa gtattttctaa totaggtttg catacaacct tgaggctgtg agatcattag 2100
tcaattgctt taattataag cctgtttttt tttttaaat taaaaaactaa taaacattta 2160
taagaattat aacagatta' ttttttatt aaattacttt gtaatcaagt totagattaa 2220
atgttttaaa atgcattaaa ggattagttt tatctcaaaa gacaaaataa aactcgaggg 2280
gggtccgta cctattctg ccgatagtga ctt 2313

```

```

<210> 132
<211> 217
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (136'..164'
<223> N= a, c, g or t

```

```

<220>
<221> misc_feature
<222> (169'..169'
<223> N= a, c, g or t

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<220>
<221> misc_feature
<222> (172'..172'
<223> N= a, c, g or t

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<211>  
 <211> misc\_feature  
 <212> 161..161  
 <213> n= a, c, g or t

<220>  
 <221> misc\_feature  
 <222> 164..168  
 <223> n= a, c, g or t

<220>  
 <221> misc\_feature  
 <222> 190..190  
 <223> n= a, c, g or t

<220>  
 <221> misc\_feature  
 <222> 192..192  
 <223> n= a, c, g or t

<220>  
 <221> misc\_feature  
 <222> 196..198  
 <223> n= a, c, g or t

<400> 102  
 agaastggca aacttccctct aaaaacttggc acacaaaga: tatttttctct tctctgtctg 60  
 caactgagat ctcaactcca atttatccat tcttgaaatc tctggcaaaag ctaccctctga 120  
 ccgagagatt ccattctcnnn nnnnnnnnnn nnnngtcant tttaaagget ancattccaag 180  
 anttgggngh gnatgtgngh atgtctatat ttagaag 217

<210> 103  
 <211> 667  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> 1231..1542  
 <223> n= a, c, g or t

<400> 103  
 acacaaaaagc gttattgtggg ggagaaaagc cagaaaaagc aacacagaga agtatcttaa 60  
 agtttcaactg ctaaaagggat ctattacata acatggccac cttttggccag ccagaccaaa 120  
 ccgaaaagagc aatgggtgta ctcttgaaag tagtattctg ccgggcgaa atatggtaat 180

```

aaagattttaa aaagattttt *aaaggag* aaagggtta aggttaggtt nnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnn 360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnn 480
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnn 540
nncttctctt aaaaacttgcc acacaaaagat ttttttctct tctctgtctg cactgagat 600
ctcacactca atttatccat tcttgaaatc tgtggcaag ctaccctga tggagagatt 660
ccatctc 667

```

```

<210> 104
<211> 451
<212> DNA
<213> Homo sapien

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```

<400> 104
ataacattct agaaataaat tgtttaatat aaaaatacact aatatataat aatgtattac 60
ataacatattg atttatatata actataatgt gtaactgttt acatatatat ttccaaagta 120
tactataaat gcaattccgc actttgctct ttttactaaa tatatcttgg aaatcactct 180
ttattcttgc ataaaaagct ccacagttcc tttttatggc tgcaaaatgt tccagcttat 240
ggatggactg attctctatc gagcaatatt aagatttgtt cctattttac tatctctaat 300
tttgttgaag tgaatttctt ttgccatgtg atttccacag gtgtatatat gttagcgaat 360
tagtactagt agaaagtaga attgctagat caaagagtat gtgctttgta attttgatga 420
tattgtgaaa tctcttccac agaagttgtt g 451

```

```

<210> 105
<211> 852
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> 1557..1557
<223> n= a, c, g or t

```

```

<220>
<221> misc_feature
<222> 1821..1821
<223> n= a, c, g or t

```

```

<411> 111
ggagggagtc ttaggttagg aattggagtc atttcttttg ttggttttca gaatttccct      60
ctctgggaat ctattctat ttggagggtt tctatagctt atgttcacct ttggttggat      120
ggaggttggtt ctctcactgt tcaatctaat tttaggtgac agaagtagaa ttaactaaaa      180
caaaaggttag gttctctgtt agtcaagaat ttagtctttt ttggcttgga gatgagggga      240
tgttcagtat cctaacctgt tctctgggtc caggatgggt tttctctggg tctggctcac      300
gagcctccca tcttagaata tcttaggaga cgggaagtgt gcaagctcta gagcctact      360
ccggacttgt tgaatctgaa tgtgttagtg ctggggctca ggaacctgta taggaaagtc      420
acagaaagca tagatctgtc tgaagaaact gctgcagcct ccattcattt ctttcttcat      480
cttccaggcc atgaacttoga actttgttag gatccaacct gcagggagat ttcattgcag      540
ttcagtcaca cacacantca cccactagca ttgctgtatc caatatcttc tctggatgtc      600
aggagagctc tgtgctggcg ctcaaggacc tcagggtcta gttgaaggaa tgaagtgtgc      660
tcattattaaa agaaaagtag caatgcaaag caaagaagga caagtgcata tgtgcagtgt      720
aaacttgatt ttaagggagg ggagaggctt tggccttggg caggatccca aggaaggaga      780
tgaagacatg gaattggagg cagtgcagaa ggtggtcttt ccagaggagc cagtgttgac      840
aaggccctg ta      852

```

```

<210> 106
<211> 456
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (84)..(129)
<223> n= a, c, g or t

```

```

<400> 106
taggttaactt tctctactaa tagtcttctc agaaatcttc catatttcac ggggttatct      60
ggggatttcag aaagctaccc agannnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      120
nnnnnnnnnn aatgcatttt aggaagggtg gaattctagag aagagaacac caattgggaat      180
ccctgcttag cgggtgaatgt gaaagtagac atagtgggtt cctttctctc aagtgcactgg      240
gtctactctc aagtaaatca gacattctct ggagatcagg ggttggtgat tttaactctc      300
ctatatagcc atagtactct ttaagagttc actaaatacg tgttaaatgg gaactcatga      360
tggtaacaaa tagctcagtg gagatgttct acagttatct catcacatgt actttgaagt      420

```



aggttagttt attttgtgaa ggtgtggtat ttgata

480

<210> 107  
 <211> 161  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (393)..(393)  
 <223> n= a, c, g or t

<400> 107  
 tacagaacgt catagggagt agtgcacccat ctgggatata aaacaagggt ctaagctagg 60  
 attgtggatc acaacgggatg aatccaggat ctagttttct gtgatacaag agaggggaatt 120  
 ggttatgaat aactagataa aatcttagtg cctgaaaacta ggtcacaata tcagagcagg 180  
 atcagcagaa tgactgatcc tactgagcag ataagctacc agtctgagga ttctaaaaat 240  
 tcttcagta tagagcacca gccacaggcc tgaggccaag ataagattcc aggtggaact 300  
 tcatgggttc aggtggccaa agggctggag ggcttttgct gaaaagatca ctgcagatag 360  
 tatttgagaa aattactcaa aaccagctt gggtatatct taggcaagaa ggaaagtatt 420  
 ttaaaagaat ttgtgaattt gtttcagttc acttggtttt tgtggagtaa attttactca 480  
 ttgatatac aaacttcata g 501

<210> 108  
 <211> 377  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (313)..(317)  
 <223> n= a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (333)..(333)  
 <223> n= a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (341)..(341)  
 <223> n= a, c, g or t

<220>  
 <221> misc\_feature

<222> 354...358  
 <223> n= a, c, g or t

<220>  
 <221> misc\_feature  
 <222> 359...369  
 <223> n= a, c, g or t

<220>  
 <221> misc\_feature  
 <222> 374...374  
 <223> n= a, c, g or t

<400> 108  
 actgtggctg gcctgttctt taaaatatga gataatatat ctgttggatg gatgcttaaa 60  
 agtgyaattg cttaggtcaaa gaaatgttt tttagttgac ctctatagag actgtaccaa 120  
 ttaacagaat aggagtcttg ctgcatggga tattgttaag acctgggtggg cctttgttaa 180  
 tataagagaa aattgggtggc ctttcagaat ttaagtagta tttttagtag tacatattta 240  
 agagtgattt ttgtgtgtga actgtttatt ttttgtcatt tattctattt gattgtgggt 300  
 tatctcattg attgtangaa ctctttgctt tcttttctct negatctgac aaanncttc 360  
 tttcatgng gatntcc 377

<210> 109  
 <211> 884  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> 108...108  
 <223> n= a, c, g or t

<220>  
 <221> misc\_feature  
 <222> 140...140  
 <223> n= a, c, g or t

<220>  
 <221> misc\_feature  
 <222> 300...300  
 <223> n= a, c, g or t

<400> 109  
 aactgaggtc agaggaggtc tgggtgcttc gctcagaggtc acacagcttg tgaagctctgg 60  
 tggagctga ggaacgtga gaaaatcttc gttctcaaga tctgaagctg acacatgggg 120

```

gacagatata attattcttc ttcttttc agatagggc taccatcac ttaggttata 140
gtacagtggt gcaatcagtg tccactggca cttccaaatc ctgggctcaa gggatcttcc 240
caactcagcc ccttgagtag ctgggtctac aggcacagtg taccatgggt ggcataattc 300
taaaagtcct tttttccat agagattggg atttgccatt tggccaggc tggctcttgaa 360
cttgctgggt gaagcaatcc ggctcagtc aattccaaa gccctgggat tacaggcgtg 420
agccactgtg cctggcctgt tcttaaaaa atgagataat atatctgttg gatggatgcc 480
taaaagtcca attgcttggc caaagaaatg ttttttagt tggcctctat agagactgta 540
ccaattcaaa gaataggagt cttgctgcat gggatattgt caagaacctg tgggcctttg 600
ttaatatagg agaaaattgg tggcctttca gaatttaagt agtatttttg tagatacata 660
tttaagagtg atttttgtgt gtgaactgtt tttttttgt cttttattct atttgattgt 720
ggtttatctc attgattgta ggagctcttc gccctcattt tattaagata tgacaaaaat 780
ttccttttca taggatata ctgttttgg ttttttttc ccccatatgg tgtctttttt 840
tcttaaaaaa aaatcctcgt gccgaatgta tegtogaggg cagt 884

```

```

<210> 110
<211> 471
<212> DNA
<213> Homo sapien

```

```

<400> 110
ggctccatggg tgagtgaag gtccattatgt ggtatatgac tatattttca ggcctgggttg 60
agggagaggt acacagggat ccttgggtta agaaatcttc atattctcat cttctctttaa 120
aagccaagag cctgttaga caattttcat agaaccagtg gcttcagggt ccagaactcta 180
gatactttta ataactataa aatttattat atgcaaaaaa aaccttcatt caacttttagc 240
caatttataa agcagtccta gcaattcata ttttggttgg agctatatac aggggaatgcc 300
ctgtcaaaaa ggaaaattac tgggggtgtt cagcataacc aaggcacttg atcactgtgt 360
tcagtagtga ttttagagtg atgtgtcttg ataagggtgac tgatttttta cttaagtct 420
tgtttactat gataataaaa gtaaatattt attattttta ctagatattg t 471

```

```

<210> 111
<211> 233
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> 96...121

```

<203> n= a, c, g or t

<400> 111

```

tatatagggg tggatgaagaa aggtcttggt atatatattt tttaactaaat atttaabaga      60
atagaatggt caggagatgt tttagagttga aggtggnnnn nnnnnnnnnn nnnnnnnnnn      120
tggaagatgt gtctaaagtat gctgggttgt ttctatatat gtgtatgttg agtatatctt      180
tattatctgt gttgggggta gaacttaacg ttctggggca ctttatcgag ttt      240

```

<210> 112

<211> 771

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (342...410)

<223> n= a, c, g or t

<400> 112

```

ttaaggtaat aaaagcatta ttggggataa ataaggtaat taggtaatga taaaaagaa      60
taagttaggaa gatagtaaca atttcaaaat tctactcagt tcataaaaata gctttaattt      120
ttaaaagcac aacttgacaa aactgtaaga aacttttcaaa tgtacaacaa aggtggaaga      180
acttaatat ttctcaata attgatagat caggaagaca aaataaaaagt aagtaaataa      240
tstatctgaat agagttaaca agctacctaa tacaacata aataattatt cagcacattt      300
tagggagcat tgtctatgat ctagacactt ctctaataca tnnnnnnnnn nnnnnnnnnn      360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn taatagacaa      420
caataagtaa ctgataaata tatgatatgc taaatgggtga aaaatgccat gaagaaaaat      480
aaagragatt aaaggaggta aggagatgca aaatggtagg gaggagggtt gctattttac      540
atattcagtg atcaggggatg ctttaacctat aagattatat ttgaggagag acctgaaaga      600
agtaagaggt gagcatgtg agaagaatgt cccagggcaga aggaacagca gttaaaaagt      660
cttgatgcaa gaatgtgctt ggctatttg agaaacagca agactagttt gctggagta      720
gagtcaggaa cggggaaagt tgaagaagt gttaccaggg aactgggga g      780

```

<210> 113

<211> 453

<212> DNA

<213> Homo sapien

<400> 113

```

tgttaactga tcatccaaat acaatcccaa agatatatca gaagctttat ttgggtacaa      60

```

```

agtatataaga attaaaaatt ttttaattat ttttaattagg ttttaattagt aattgttttga 120
tatattttta ttttaatttct gttacaattga gtttttagttt ttatctaaagag aatggagaaag 160
aagtttatagg aaaatgaattt tttaattgaaa ttagtattat ataattttga attagatggtt 240
tataaaaaatt tatagattga tataaaattga gttgaaaattt attattttat aggaaggcagg 320
attagattttt tgttcaattgt tttaagataa tttttatagt ttatgtatgt tttttaattt 360
ttacaatttg gtttattggt tttttttttt aaggaattta taaaatgcaa tgaaattttga 420
ataaaattga ttatagcaat aaataatttt taa 460

```

```

<210> 114
<211> 810
<212> DNA
<213> Homo sapien

```

```

<400> 114
taagaatcat aacataaagg gattcatggt tagaaaaaat ccataaaactt cttttctaat 60
attgagacac tccaggcttct tttaagacaa ataactttta attattttat atttttcaag 120
ttattaacca agataaagaa tttttcagtt agtggggaaa atgaaaatta ttaagaatag 160
aattgttttt tgacttttaa aacaattttg actttaaaa atgaactgtt actcagggtg 240
gtgatactct agttgttagt ataccatact tgaagatata atcaagatca ctatagttgt 300
atatacttct tttttttata tgtaaatgtt aaattagttt aagtattttt gtttgtatcg 360
ttaattgata atcaaataca atcttaaaga tatatcagaa gttttatttt ggtacaaaagt 420
cataagaattt aaaaacttttt taaccattta cattaggtat caacagtaat tgttttgagt 480
acttttatat caattctgtt acactgagct tttagtcata ctaagagaat gcagaagaag 540
ttataggaaa atgaattctt actgaaaatt gtattatata atcttggaat agatgtttta 600
aaaaactttat agottgatat aaaatgagtt gaaaatttatt atttaattagg aagcagcatt 660
agatttttgt cactgttttt agataaatat ttctagtcta tgtatgttat ttaattttta 720
taatttggtc cattgtttat tttctttaag gaattcatca aatgcaatga aatttgaata 780
aaattgataa tagcaataaa taatttttaa 840

```

```

<210> 115
<211> 155
<212> DNA
<213> Homo sapien

```

```

<400> 115
ttctaaactct aggagtaaca gctgtcttta acatctgtct ttcccatgtg ctttagagtt 60

```

aatttaggttt attagctaat tctttattat tctttattat tatcaaaaa tagagttgtt 111  
 aattttttat agttaaattat ttttgtttgt attgtt 121

<210> 116  
 <211> 161  
 <212> DNA  
 <213> Homo sapien

<400> 116  
 ttctaaactct agggagtaaca gctgctccta acatctgctc ttcttatgtg ctttagaggtt 60  
 cctctgtgtt attagccaat tctctattac tctaatcttc cctcaccaaa tagagtgtat 120  
 aactctttac agtaaaactat ccttgtttgat attgtaaaaag 160

<210> 117  
 <211> 553  
 <212> DNA  
 <213> Homo sapien

<400> 117  
 accacgttcg gccctctctc tcttaattta aatgttttct tcagcaaaaa gtatcctagg 60  
 agcattgctc atatggggcg gaatgtcttg gctgcccata gaggtgtgtt gtagataccc 120  
 ttggtctgtt tcagtgcctc gtgaacatcg cagagatctg ccttgtgtct ccttgcaccc 180  
 ctgggtgcag gggagctcct gctgctcctc ctggagctgg tgggggcctc actgcccata 240  
 ttggatccct tctgcccgc agcctgtgtt cctcagtgca ctgggaggag ggggtgctgt 300  
 gtggttgtgt tgagccttca taggtgtcct ctgggtgggt tagaatgggg gttcttaata 360  
 cccccagta tgtggataga attcaggggt ctgtgaacat ggtgaggaa aaaataacat 420  
 tattatttat tactaatgta gctaaaaat gtagtgtgac ctctgattat aaatgtagac 480  
 aataaacctc acagcattag aaaggctgtt gactaccac ataacaaaa agcacattgt 540  
 tgtccttgaa ccc 553

<210> 118  
 <211> 593  
 <212> DNA  
 <213> Homo sapien

<400> 118  
 accacgttcg gccctctctc tcttaattta aatgttttct tcagcaaaaa gtatcctagg 60  
 agcattgctc ataggggcg gaatgtcttg gctgcccata gaggtgtgtt gtagataccc 120  
 ttggtctgtt tcagtgcctc gtgaacatcg cagagatctg ccttgtgtct ccttgcaccc 180  
 ctgggtgcag gggagctcct gctgctcctc ctggagctgg tgggggcctc actgcccata 240

```

ttggatcttt tggagaggtt agtctgttt tcttaggtt attggaagga gtttttgggt
61
tgggtttgtg ttgagcttt atagggttt tgggtggt ttgagatggg gttttttaat
62
cccccttagt atgtggatag aattcagggg tctgtgaaa ttgacgagga aaaaataaca
63
tttttttta ttattatgt agctaaaaa tctagtgtga ttcttgatta taaatgtaga
64
taataaagct caagacata gaaagggtg tgaataaaa cataacaaa caggacatgt
65
agtccttgaa cccaaaaaaa aaaaaaaa aaaagatctt taattaagg gtc
66

```

```

<210> 119
<211> 94
<212> DNA
<213> Homo sapien

```

```

<400> 119
ttaaatattt taaaaaaata aaaagaaaat ctgttgactt tatccccagt ggaaatcaca
60
ggtatttcat atgaagttat agttactgct gata
94

```

```

<210> 120
<211> 82
<212> DNA
<213> Homo sapien

```

```

<400> 120
gaaaaaagct attctgaaa atgaaagtgc aaggtgctga tctagcagct ggagcaagtt
60
atcaagaata tataactaag at
82

```

```

<210> 121
<211> 431
<212> DNA
<213> Homo sapien

```

```

<400> 121
ggagtgttca ggacaggggg ataagctgag gccttagcaa ccaggagagg catcgtggag
60
gggggtggccc tgagcagtcg caactgccc cagcccagag ggcacatcaa taccagtgat
120
aaaaagctac ttctctctcg ctctatgaga ggggttggag tggactcagc tcccacccag
180
ccaccacccc aagctggcat catgggccc ggcacacccc aggtagctat cagcagtggg
240
cttgggtgtg tcttggctgg ataggatagg ataagggttg taaaggaaaa ggaaggagg
300
aacctaggtaa caatccata agcagggtao cagcgactc atcacaacag agggaaaaagg
360
ctgtcatggg ggcattctgt tggcaattga cctgtttcta atgggttcgg tctttcttt
420
ctttccagg a
431

```

```

<210> 122

```

<211> 751  
 <212> DNA  
 <213> Homo sapien

<400> 122  
 agacaaagaa aaagaatcag attctctctc attcattact cttagatggg cgttgattct 61  
 aattctctca cctagctagg agtctctctg ctctttattg ctgttttatt gatgacattt 121  
 ggcatttgta ggaatagtaa tugaatcctc tatatatttg tggctctgtt gaatgtagaa 181  
 aaagcatagt ggaattttct aattgtgtta cctataaaca ccttgacggg ggaatacagt 241  
 tcatatgttg gaacttttgt gtttgtctat ggtgtctggg ttgttttaat atacttagca 301  
 cattgtctta attgcacccc ttttggggag ggcataatat ccaagcctat atggttagcat 361  
 ttttgtttta acatagagct gacccaaggt agacgttaagt gttgttccatt ctgcctaat 421  
 actaataaaaa ttacctaatt gttgaagctt ggagcttgaa cctaggcatt ctatgtcatt 481  
 tcaagtacac cctagtattt taaagcataa atactctact atctcaaca acttttagaa 541  
 aaaaataaat attttaacaa gaaaaaagca tgcctatgaa aggtgttaact taataaagaa 601  
 agacaaggaa tgggtctctat agaccgagaa aaaataggtc ctacagatata tttatagcaa 661  
 aggaagttta ggaagttaaa aaacagtggg ccccccccc cggccaaaaa ctacacaact 721  
 atatcttggt taccacaagg tgttttagtg 751

<210> 123  
 <211> 55  
 <212> DNA  
 <213> Homo sapien

<400> 123  
 ctaatagcct gctgttgact gaaagcctta ctgatagcaa aaccagttag ttaac 55

<210> 124  
 <211> 450  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (292)..(292)  
 <223> n= a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (384)..(384)  
 <223> n= a, c, g or t

<220>



<221> misc\_feature  
 <222> (364)...(398)  
 <223> n= a, c, g or t

<221>  
 <221> misc\_feature  
 <222> (398)...(405)  
 <223> n= a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (398)...(398)  
 <223> n= a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (405)...(405)  
 <223> n= a, c, g or t

<400> 124  
 taattatttg catgaaataa atcatcagtt gaaacttact atattaaaaa acataaaaaat 60  
 aagccctttt tttaacataa ccagtgccctt gaaaaaactgg ctggccaaat tcaaaaatggc 120  
 aaaaataata aaatgagtag ctaagcattt tatttgcaat tgtatctttg cattttatttt 180  
 tagagcataa tagagaataa tatttactga ttccataagg aaatgtttac ttccctttat 240  
 ctggtaatta cggaaaacaaa ttgcctgggtt acatttgaaa taaatgaatc anatttgagt 300  
 caatgtgtta tagataaata aagttacatg attgcaattt attcacagag tgttttttta 360  
 aaaaatcat tgaagtgaat ggannnaatg taactnangt aaatntaaa aaatggagaa 420  
 gagtctcagg atgaagtgtt gaaggctttt 480

<210> 125  
 <211> 398  
 <212> DNA  
 <213> Homo sapien

<400> 125  
 gtctctctagg tccgggacct gaggcttctt gatttgcttt ctctctttac tctcatttat 60  
 cctattctctg gggtgtcaca atgggcttac ccattatgta agctcttaagt gaaaaaatca 120  
 gatgttattt tcatgagctc tgagggcact tctgcatttg ttctcatttg actctctctga 180  
 agcttgagaa tgcacaggaa ggcagtttct atgcagatg agcagcatgg aggaggcttt 240  
 tggaaagtga atgaattgtc caaggtccag aggtgaggag ctggggaccag gcttcacagg 300  
 ctctctgttat gtggctctgt cccgtccctg gttctctgct tctccaggtg gtgcctttta 360

gttccttctt aaatcaatag tttgttgggt tgggtgtg

198

<210> 126  
 <211> 658  
 <212> DNA  
 <213> Homo sapien

<400> 126  
 gatcttatcg ttgatgggaa atgacaccaa atgtcatctc aggaataaat aacbatggaa 60  
 gttctaaaaa cttgggcacaa atatatgagt tggcctgaga ctgggggtagc tccatctctt 120  
 atcctatggag attggcaagt gacaaatctt gctccgggtc cttctggcat tccctctatt 180  
 gtgaggaaga gagagggggc ctcctgtctg tgtcccccag cctgtgtcac tgcctctctt 240  
 ttcacccaga gtgttgtctt ctagctcccg gacctgagcg ttcttgcctt gctttctctc 300  
 tttctctcca tttatgctat ttctggcggt tcatcactgg cttaccctat atgtaagctt 360  
 taagtgaaaa aatcagatgt tattttcatg agctctgagg gcacttctgc atttgttctc 420  
 atttgcactt tctgaagcct ggagatgac aggaaggcag tttccactgc agatgagcag 480  
 catgaggag gcttttggaa gtgaaatgaa ttgtccaagg tccagagggt aggagctggg 540  
 accaggctc acaggcttct gttatgttgt cctgt cctgt cctgggtctt tctctctctc 600  
 aggtcgtgct ttctagtctc tctctaacca acaagtgttg gaggctgggt g:ggtagc 658

<210> 127  
 <211> 430  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (142)..(142)  
 <223> n= a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (152)..(152)  
 <223> n= a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (167)..(167)  
 <223> n= a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (171)..(171)  
 <223> n= a, c, g or t

```

<217>
<221> misc_feature
<222> 183..183
<223> n= a, c, g or t

```

```

<220>
<221> misc_feature
<222> 195..195
<223> n= a, c, g or t

```

```

<220>
<221> misc_feature
<222> 241..241
<223> n= a, c, g or t

```

```

<220>
<221> misc_feature
<222> 243..243
<223> n= a, c, g or t

```

```

<220>
<221> misc_feature
<222> 283..283
<223> n= a, c, g or t

```

```

<220>
<221> misc_feature
<222> 296..296
<223> n= a, c, g or t

```

```

<220>
<221> misc_feature
<222> 315..315
<223> n= a, c, g or t

```

```

<400> 127
cagaaaatat ttggccagaa gaaataaagt atgatcttaa tagaatccag aagcgttaag 60
atagcaataa atgatgcctt taggcctgat ctccaagcca gtcataatgt ataacgtaag 120
atttgagccg gtgtcggtat cttcagacat gtaggaggaa gtgatttaac natgaacagt 180
tgnaaaagtg cagcngttag gacaacccaa attgtttttt caagagaaaa caatccacac 240
ninaaaaaaa aaattgggga ctttttcttt ttgtctggg ttntgttttg ggcactttgg 300
ccacatagtg ttgtntgta aatataataa aactcattag ggcagtcctt cattaaaaaa 360
ggcatagct ctagaaaact actatttaag cttaaaggac tacatattca tgatagagtc 420

```

tagatggttt

411

&lt;210&gt; 128

&lt;211&gt; 118

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 128

tacaataacaa aaatgattcag cgagaagcta ggtggggctca aatgcccggg caaaaaagggg 60

ttaggtcttgc agggctatag tttagatgtaa ttacagatg caactagcgg aaa 113

&lt;210&gt; 129

&lt;211&gt; 689

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 129

cacaaactcta gaaggtgcct gtcacaccgt tttgtatgaa aggtgcctcc tagagtatag 60

ctgtacagta gaactatttt tgatataaga agggataaag cacacttgac agatgatata 120

aaaaigttaa agaaaagang tgtctgtttt agaaggaagc tgtatgagat aataggccaa 180

tgttaggggtg gtggtagcca tgggtggtaaa aataggatca cttaatctag attacttaat 240

tagtaagttg attccagggg ccagtgggaa ttgctgaaag tttcatctga ataatggaa 300

tttttagcag tgattagggg aatgggtgtg gtatttatag ccattgaactt attacttgaa 360

tgcattctag ggacccaagt cttaatcaag gggcagttct tccaagtagt ggttgaggaa 420

gttgggtatg ctttccaaaa cttctttcct caclaaagat tgcagatata ctctgtaagt 480

gacttcacag aatataacta attgtcatat ttttaatttc atgtttcttc tgattatagg 540

tcccacgtga ttataagttc tgagatcaag ggtcatcttc gtgggggtgt gtgtgtgac 600

ttaaaatttt tatgtgtgtg taatagttat ttgttgata ttttaagaaat aggaatgtgt 660

gccatatttt aaatacacct tatatgcaa 689

&lt;210&gt; 130

&lt;211&gt; 1901

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; miss\_feature

&lt;222&gt; (1582)..(163)

&lt;223&gt; n= a, c, g or t

&lt;400&gt; 130

ttttttaaa tggttttacc ttgtttccat taatatccac atttaaggta accgttttca 60

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| ttaaaatcttc | aatttataaa  | tacatatgtg  | tttgtttgtc  | cagttattat  | ttcaaatctt  | 121  |
| atggagtctt  | aaatattgtt  | aaaaggtagg  | gggttatctg  | attttatgta  | ttttgggttt  | 161  |
| atgcacatct  | cctttataga  | atagggaattg | tatttggttat | tgtttcttat  | ctttttccca  | 241  |
| agtaactagt  | cagcaaaccc  | ttatggatgg  | ttagtaatta  | ttagatgatt  | ataatttaac  | 300  |
| taccttcata  | gctcaganta  | ttcatggaac  | aatttatggg  | cataaaaaac  | tatggcagta  | 360  |
| gacattttaag | gatatttttt  | atgggtgacta | tggaaattgc  | ctgggttacaa | atttcatatat | 420  |
| agagtcagta  | acatttgataa | aaacataaca  | aatttastgtt | tcattggaact | cattgaagcat | 480  |
| taagagggtt  | atttcagttt  | gttttagatac | aagggtagtg  | cttccccaaa  | attgttacct  | 540  |
| caaaaattttt | gtagctgctc  | cagttgaaca  | ctatatataa  | atgcacattt  | ttgaggacat  | 600  |
| attotttgaia | ttagggaatgt | aattttttaag | aattaaacag  | aggaccagaa  | atagatctga  | 660  |
| ggagtcttat  | agagctgctt  | ccttgcacaa  | ctctagaagg  | tgcctgtcac  | acctttttgt  | 720  |
| atgaaagggtg | cctcctagag  | tataactcta  | cagtagactc  | attttttgata | taagaaggga  | 780  |
| ttaaagcacac | ttaacagatg  | atatcaaaat  | gtaaaagaaa  | agaagtgtct  | gttttagaag  | 840  |
| gaagctgtat  | gagataatat  | gcaaaaggcca | gggtgggtgg  | agcaatgggt  | gtaaaaatat  | 900  |
| gatcaactaa  | tctagattac  | ctaactagta  | agttgattcc  | agggggccagt | gggaattgct  | 960  |
| gaaagtcttc  | tctgaatata  | tggaaatttt  | agcagtgatt  | aggggaattg  | tgtctggtatt | 1020 |
| tatagccatg  | aaattattac  | tggaaagcat  | cctagggaac  | caagtcttaa  | tcaagggggca | 1080 |
| gttcttccaa  | gtagtgggtg  | aggaagttgg  | gtatgctttc  | caaaaacttc  | ttctcactta  | 1140 |
| aagattgcag  | atatactctg  | taagtgaact  | cacagaatat  | actcaattgt  | cattattttta | 1200 |
| tttacatgtt  | tcttctgatt  | ataggtccca  | cgtgattata  | agttctgaga  | tcaaggggtca | 1260 |
| tctttgtggg  | ggtgtgtgtg  | tgcacttaaa  | atttttatgt  | gctggtaata  | gttatcttgt  | 1320 |
| ggatatttta  | gaaataggaa  | tgtgtgccat  | atttttaata  | caccttatat  | gcaaaaattt  | 1380 |
| taatgtaat   | taagtatatc  | gcaaaaata   | aataggggg   | ggtattcaca  | ctgcagagga  | 1440 |
| tgggcaagtc  | tttttactat  | acttcaaaca  | attgttgcca  | gaaatccgc   | tcattgcactg | 1500 |
| tattgaataa  | tctgaaarat  | tagcatctaa  | ctaattcaaa  | gctaagataa  | agagattttg  | 1560 |
| aggtgaggtg  | ataaatatat  | nnnnnnnnnn  | nnnnnnnnnn  | nnnnnnnnnn  | nnnnnnnnnn  | 1620 |
| nnnnnnnnnn  | nnnnnnnnnn  | nnnnnnnnnn  | nnnnnnnnnn  | nnnnnnnnnn  | nnnnnnnnnn  | 1680 |
| nnnnnnnnnn  | nnnnnnnnnn  | nnnnnnnnnn  | nnnnnnnnnn  | nnnnnnnnnn  | nnnnnnnnnn  | 1740 |
| nnnnnnnnnn  | nnnnnnnnnn  | nnnnnnnnnn  | nnnnnnnnnn  | nnnnnnnnnn  | nnnnnnnnnn  | 1800 |
| nnnnnnnnnn  | nnnnnnnnnn  | nnnnnnnnnn  | nnnnnnnnnn  | aataggtata  | ttttccattt  | 1860 |

atgattgaat ccatgataat ggaacccatt gatattgagg a 1911

<210> 131  
 <211> 436  
 <212> DNA  
 <213> Homo sapien

<400> 131  
 gctggagtaa ggcattcaat aatgtctttt tggttccgat cctagctgta taacataggt 60  
 aaatctcttta aattctcaga atttcaattt atttatatgt aaagtgagga gttctaccat 120  
 attgtatgtt attaacatgt atgttactta tgaattagtc tgaaaatctt gctaaaactgc 180  
 atattctgag cttttctttaa tttttttttg tttttctgga aacgtctgatt ctctaggtct 240  
 tgggtggagt ccaggtatct gcaaattaaa taagcacttg aagtgatagt atctgagtggt 300  
 ccgtaggcaa atgttaggag aactgaatca gatgttcttt gaaagatttt catggttctt 360  
 aaatgttctg atttaaaatc cacaaagaaa aaaagcattg aaaatgaatc agcaaactag 420  
 atgtaattaa agcttc 436

<210> 132  
 <211> 498  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> 1434...1434  
 <223> n= a, c, g or t

<220>  
 <221> misc\_feature  
 <222> 1468...1468  
 <223> n= a, c, g or t

<400> 132  
 gaaaaaaaaagt ggaaacattt ttttaattca agattttaaaa aaaaattaca tttgtgatag 60  
 gtagaaaaaa atctgtcaca caactgtttt ggtagttgtg taagtcttga caacctacca 120  
 aaatgtaaat ctgacagtat acattcaagg ctttatgatgg tgggcagtcg atcgaggaat 180  
 ctattctatg ttgtacaatt aaggcgtact atgatattta ttgcagaaca gagagaaata 240  
 gcatatacat tggtagttta tggattaaat aaagcatgat cctttcaaaa attgagtaat 300  
 atgacattaa aaaccacaat tttcaactat atttaagaag atacaaataa ttctttatta 360  
 ttacttttac tctcaggaat gggtttgagt gatgcatttc caggcatcaa gtgagtaato 420

caatattttaa gaanattttaa attttttttt agtctttttt attttagaagaa ttggtttata 481  
 tttttttttt agaatatga 488

<210> 133  
 <211> 422  
 <212> DNA  
 <213> Homo sapien

<400> 133  
 tagaggagga aatcaggggt gtttaggaat gttacataat gtattctgat ttgagtttaa 60  
 taaaaaaatc attatttggc catcacatag atgaagtaat ttgggttagt gaaatgtggc 120  
 ttgagttagt gggtaactgg atgaacgagt gattgagttg tcaactgttg gtttagoggtc 180  
 atgggtgaaca cgaaggggagg catctgggga tatgccatat agctctgttc ttggccagca 240  
 ttgttaaaag acatttttaa caatgacata aatcaggtca ttgggtggcgc acttatcaaa 300  
 tatataaatg tcccaaagct caggggggatg gtgaatgtaa gatgacagaa ttaacacttc 360  
 tcaattatctt ccaaccaggo tagaatgaat atttagccaa agtccataaa ataacattca 420  
 tt 422

<210> 134  
 <211> 441  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (307)...(307)  
 <223> n=a, c, g or t

<400> 134  
 tagtacataa aactgaaatg gttcaaaaaa catgaaaaga tgcctaaactg tttattcttc 60  
 agtctcattt ttgtctcatt ttttttcttt tgccttaacta tagtaaaaagt gaactcagtc 120  
 ttatatttaa attttgattt tgaatttttg catctttttc ataaaacttc tttctacagt 180  
 gttttttaat tcaaatgtac gttgtttcat ttctattttt tttctctgtg agttttcttt 240  
 attgggagtt attttaatga aggcacaaag gttcttgggt aatctcagtc ttgctgatat 300  
 tttttcttaa cattttaatat aaaaattttc acacataggt aaattctgaa tgtttgcaat 360  
 gaaatttttt atacctgca tttagctatt accatgaata ttttagtata ttggttttat 420  
 cacatatctg gtccatttat c 441

<210> 135  
 <211> 499

<212> DNA  
<213> Homo sapien

<411> 135  
 taggttcctt aacatgcacg cctacagttt acctcaaatc caaccaggag aggcacattt  
 60  
 aaaaatacct gataaattaa aattcattaa tttaattctt ttaagtcctg ttagtcctat  
 120  
 cattgtgccc attgctgaca caataccaaa ttacacagt tgcagtgcac gccatgagtc  
 180  
 aagaaaatgg ggtctaatcc ttcctgcccac cttagttatcg aattattctg aaaaagaagt  
 240  
 ggatgtactg atagatggaa agatcgaatc gattttttta ggagagattt ccttgaggtc  
 300  
 atga'aaat aatcctgttg gaatagatat tctatccag cctcctcaag cacagggtcc  
 360  
 caaagtcaag gccagacagt aagccaagtg ctatagaaat ctgtggatcg ggtacaatta  
 420  
 gcaatacata ataaatttga gctcttagga tggttaaaga atttgagggg aaaaacttaa  
 480  
 aaccacctct taaaagcaa  
 499

<210> 136  
 <211> 701  
 <212> DNA  
 <213> Homo sapien

<400> 136  
 cctcttgagg atttccatat aacgctagcc ttgatattct ggcccacacc atttgratga  
 60  
 aagaagaatg attgtttctt actgagtaag agaactacag agaccaatgg attcaagtag  
 120  
 tggaaacagct ttaatatgta acccatacct gtaccaatgg gtattgggtc cctagctcac  
 180  
 ctttaggctg actagtatgc ctatgctgga tgttcaatcg cgggattaga cgggattgag  
 240  
 ctttatctag tatctctatt agtcactatg agctataatc ttttagcccc tggatcatta  
 300  
 tgaagtgcac caagaataag atacagtggc tcccaaggac tggatctcat agctaaocaa  
 360  
 ctcagatggc taaaatacta ttcctgtatt ttatacctag tatttttggc ttgctttata  
 420  
 atgggagtag tcattctggg aatctgacct tctaaatgaa agacaacttt atgcttatat  
 480  
 tattctctatc ctgcacaaaga catgtaccaa aattgatttc tggggctctc gtgggattat  
 540  
 acattttctt tggactttct ccccttttac tgaagaagtg atttttctaa aagacaccaa  
 600  
 tcaatttttc tttctctgtt agggaggatg gtggtgggtg ggtgtctctt gaaaggaggg  
 660  
 tagaatatga gatgaattgc actgaactag tgttaaagaa t  
 701

<210> 137  
 <211> 274  
 <212> DNA  
 <213> Homo sapien



```

<410> 137
gtaaaacctt aaatggccaa taataggaat taaactggta aaataaatatt gtcatttttaa
60
taatcagata aaatgatata gatgaatatt caatgacacg agaagatatt tataaatatt
120
ttattataaa aaatatttta attgggtaca ttatatgtcg ctatgacctc agagtagaga
180
gaagtgcacg tttaaacaca aaatgaaaaa ttgttaagat aatgggtgct atttctagga
240
ctgtaaaaat tcattttacc aaagaaaatc atag
274

```

```

<210> 138
<211> 352
<212> DNA
<213> Homo sapien

```

```

<400> 138
gtaaaaacct aaatgcccac taataggaat taaactggta aaataaatatt gtcatttttaa
60
taatcagata aaatgatata gatgaatatt caatgacacg agaagatatt tataaatatt
120
ttattataaa aaatatttta attgggtaca ttatatgtcg ctatgacctc agagtagaga
180
gaagtgcacg tttaaacaca aaatgaaaaa ttgttaagat aatgggtgct atttctagga
240
ctgtaaaaat tcattttacc aaagaaaatc atagtttttt tttttttttc tggagatgga
300
gtttcgctct tgttgcccag gctggaglac ctgggcgcg accacgctaa gc
352

```

```

<210> 139
<211> 647
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (319'..552'
<223> N= a, c, g or t

```

```

<400> 139
acagattcat ctgttatact cgtatagatt gaaactgata tactgttaag tcaacaataa
60
cgaaggggag gacattgcag aaaactatga gaaggatctc aattttgcac attatacatg
120
tatacacaca tatctacat ctattctctg tgagcatttg tttctgttaa tatgtagatt
180
aagttctagg cacagaaagt ctatagaagta tctattaaca gttgggtctg agttaagtaa
240
ataaattact ttctaandac atttttcatt gatatgcggt gggaattttt tataatttgt
300
gtgtgtgtgt ataacacann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
480

```

```

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 641
nnnnnnnnnn nnaaagaatg aaatttaggt actatgattt ttatataat atgagagttt 642
gagaaaagggt tgggataata gaacacccctt ttgacagccr gggtagaa 643

```

```

<210> 143
<211> 334
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> 44...44
<223> n= a, c, g or t

```

```

<220>
<221> misc_feature
<222> (214)..(214)
<223> n= a, c, g or t

```

```

<220>
<221> misc_feature
<222> (300)..(300)
<223> n= a, c, g or t

```

```

<220>
<221> misc_feature
<222> (306)..(306)
<223> n= a, c, g or t

```

```

<220>
<221> misc_feature
<222> (308)..(308)
<223> n= a, c, g or t

```

```

<220>
<221> misc_feature
<222> (315)..(315)
<223> n= a, c, g or t

```

```

<220>
<221> misc_feature
<222> (323)..(323)
<223> n= a, c, g or t

```

```

<220>
<221> misc_feature
<222> (320)..(320)
<223> n= a, c, g or t

```

```

<4> 141
tggatagaa ttgggttca attagagtg aatttgtaa ttctttatca aagtataat 60
ttatgtgata ttcttatgtc attttggat ttgggttagtg tgaattatca tggatgtrtt 120
tttatgtgaag tgttaataac ttgtcaaaa atacttttca ttaattagag gttgttagaat 180
ttttataact gctactcagg aattgggtca tctnataatc tgaattacta taactttggt 240
ctctcttttca tgaatagctt gagcactga catctgtgtg totaggtgat taagtgaagn 300
ttctangtta taatntggan aenagtcacc agtc 334

```

```

<210> 141
<211> 990
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (105'...(105'
<223> n= a, c, g or t

```

```

<220>
<221> misc_feature
<222> (116'...(117'
<223> n= a, c, g or t

```

```

<220>
<221> misc_feature
<222> (132'...(132'
<223> n= a, c, g or t

```

```

<220>
<221> misc_feature
<222> (143'...(143'
<223> n= a, c, g or t

```

```

<400> 141
ggcggatggg ggcattgcagt ttgttttttg ggaactgctt tccagctgtt tggctatgag 60
gaaaacggag tcaatctct acagcatctc ttgaagttaa tctcnagtaa taaganngta 120
gcagatgata anagtgttagc aanagcagca cagagtttct tccaaggatt ggaactgggt 180
gatatgctag caattcact gttggcaaaa ttctggggar ttgagcatga agagtaratt 240
gggttttaca aggtctggg agtataatt gatgaataat caggagaatt attttatgtt 300
gaaaactctc aagaggtctt aaagtgtgtg gagagtaaag gactcttact gaaaacaata 360
aaaggaaagg ctgtagttaga tctctctggg aatggcgacc cctctctaat ttgtactgta 420

```

```

atgggaagtg atgggatttt ttt tatpca atagagatt ttggagtag tatagataga 481
atgggaagtg ataatataga taaaatga ttt gggaag ataaaggaga aaatattga 541
ttt aggaag ttttcaaat gttgaagatc atgggatatg atggggcaga aggtgtcag 601
caggtgtctt ttggagtagt ataggggaatg aagactcaga gagggagatgt cactttctg 661
gaagatgttt caattgagat caatttaagg atgctacaga acatgggttt aattcaagagt 721
gaattcagct ttttttatt aaagtccataa cttacgttgc aotttctatgt tattctggac 781
tttgggcagt gtgaattatt atgtctgttc ctccattgaa gtgtccataa ctttctcaaa 841
aataacatct actaatlaga ggtgctagaa tttttatact aggtactcag gaattgttca 901
cttcaataat ctgaattact ataacotttg tctctttttc atgaacagct tgagccactg 961
acattctgtt gtctaggtag ttacgtgaag 990

```

```

<210> 142
<211> 195
<212> DNA
<213> Homo sapien

```

```

<400> 142
ccaaaaatctt atcattttta caagtacaac taccctattt ccttcagaat gtgcatttgc 60
ttctggtttg ctgtggatcc tgtattggac cactcagctg tagagtcttg tggatccaa 120
gttccaagga gaccatcat gcatgtttag ggcagtttc aggtgtctct gacatgacac 180
naaacctcca tttcc 195

```

```

<210> 143
<211> 57
<212> PRT
<213> Homo sapien

```

```

<400> 143

```

```

Met Asn Leu His Cys Ser Ser Met Thr Gly Pro Leu Ala Ser Lys Thr
1          5          10          15

```

```

Ser Gln Asp Leu Leu Ser Leu Gln Ser Lys Phe Leu Ser Leu Phe Asn
20          25          30

```

```

Gln Ile Phe Leu Arg Ser Gln Gln Gln Thr Val Thr Pro Tyr Tyr Thr
35          40          45

```

```

Leu Gly Ser Gln Met Cys Asn Leu Ile
50          55

```

<210> 144  
 <211> 1  
 <212> PRT  
 <213> Homo sapien

<410> 144

Met Asp Leu His Cys Ser Ser Met Thr Gly Pro Leu Ala Ser Lys Thr  
 1 5 10 15

Ser Glu Asp Leu Leu Ser Leu Glu Ser Lys Phe Leu Ser Leu Phe Asn  
 20 25 30

Gln Ile Phe Leu Arg Ser Gln Glu Glu Thr Val Thr Pro Tyr Tyr Thr  
 35 40 45

Leu Gly Ser Gln Met Cys Asn Leu Ile  
 50 55

<210> 145  
 <211> 45  
 <212> PRT  
 <213> Homo sapien

<400> 145

Met Arg Ser Ala Gly Ser Asp Phe Ser Leu Val Lys Trp Val Val Phe  
 1 5 10 15

Lys Leu Cys Arg Trp Thr Gly Asp Ile Phe Pro Leu Leu Leu His Glu  
 20 25 30

Glu Ile Cys Leu Asn Val Asp Arg Leu Glu Ile Phe Phe  
 35 40 45

<210> 146  
 <211> 30  
 <212> PRT  
 <213> Homo sapien

<400> 146

Met Ser His Arg Ala Arg Pro Arg Trp Cys Val Phe Ser Arg Asn Lys  
 1 5 10 15

Tyr Ile Leu Leu His His Arg Ile Thr Leu Ile Lys Val Gly  
 20 25 30

<210> 147  
 <211> 85

<210> PRT  
 <211> Homo sapien

<400> 147

Gly Ala Val Leu Ala His Cys Asn Ser His Leu Pro Gly Ser Ser Asp  
 1 5 10 15

Ser Pro Ala Ser Val Ser Ala Val Ala Gly Ile Asn Gly Ala Ala His  
 20 25 30

His Thr Trp Leu Ile Phe Val Phe Leu Val Glu Thr Gly Phe His His  
 35 40 45

Val Gly Gln Asp Gly Ile Glu Leu Leu Thr Ser Asp Leu Pro Ala Ser  
 50 55 60

Ala Ser Gln Ser Ala Gly Ile Ile Gly Met Ser His Arg Ala Arg Pro  
 65 70 75 80

Arg Trp Cys Val Phe  
 85

<210> 148  
 <211> 47  
 <212> PRT  
 <213> Homo sapien

<400> 148

Met Pro Lys Leu Leu Pro Gly Phe Gln Gly Asn Arg Ala Arg Trp Leu  
 1 5 10 15

Asn Gln Arg Ser Asp Ser Gln Ala Ala Arg Glu Lys Val Phe Asn Pro  
 20 25 30

Leu Ile Pro Val Cys Asn Arg Arg Asn Gln Gly Leu His Thr Leu  
 35 40 45

<210> 149  
 <211> 166  
 <212> PRT  
 <213> Homo sapien

<400> 149

Met Leu Val Gly Arg Lys Arg Arg Arg Glu Ser Ser Val Lys Glu Asn  
 1 5 10 15

Thr Gly Met Glu Thr Leu Glu Arg Leu Arg Glu Lys His Pro Met Gly  
 11 14 17

Lys Ser Arg Arg Thr Ile Ser Cys Leu Trp Arg Thr Gly Ser Arg Glu  
 18 41 45

Gln Ser Thr Ser Pro Asp Thr Ser Leu Gly Ser Thr Thr Pro Ser Ser  
 51 55 60

His Thr Leu Glu Leu Val Ala Leu Asp Ser Glu Val Leu Arg Asp Ser  
 65 70 75 81

Leu Gln Cys Gln Asp His Leu Ser Pro Gly Val Ser Ser Leu Cys Asp  
 85 90 95

Asp Asp Pro Gly Ser Asn Lys Pro Leu Ser Ser Asn Leu Arg Arg Leu  
 100 105 110

Leu Glu Ala Gly Ser Leu Lys Leu Asp Ala Ala Ala Thr Ala Asn Gly  
 115 120 125

Arg Val Glu Ser Pro Val Asn Val Gly Ser Lys Pro Leu Leu Phe Pro  
 130 135 140

Ala Phe Pro Pro Arg Pro Ala Ala Gln Cys Ser Gly Gln Glu Val Gly  
 145 150 155 160

Arg Glu Ala Gly Thr Glu  
 165

<210> 150  
 <211> 352  
 <212> PRT  
 <213> Homo sapien

<400> 150

Pro Arg Asp Val Ser Arg Gln Glu Glu Ala Glu Gly Glu Leu Ser Glu  
 1 5 10 15

Gly Glu His Trp Tyr Gly Asn Ser Ser Glu Thr Pro Ser Glu Ala Ser  
 20 25 30

Tyr Gly Glu Val Gln Glu Asn Tyr Lys Leu Ser Leu Glu Asp Arg Ile  
 35 40 45

His Glu Gln Ser Thr Ser Pro Asp Thr Ser Leu Gly Ser Thr Thr Pro  
 81 85 89

Ser Ser His Thr Leu Gln Leu Val Ala Leu Asp Ser Gln Val Leu Arg  
 93 97 101

Asp Ser Leu Gln Cys Gln Asp His Leu Ser Pro Gly Val Ser Ser Leu  
 88 92 96

Cys Asp Asp Asp Pro Gly Ser Asn Lys Pro Leu Ser Ser Asn Leu Arg  
 100 104 108

Arg Leu Leu Glu Ala Gly Ser Leu Lys Leu Asp Ala Ala Ala Thr Ala  
 115 120 125

Asn Gly Arg Val Glu Ser Pro Val Asn Val Gly Ser Asn Leu Ser Phe  
 130 135 140

Ser Pro Pro Ser His His Ala Gln Gln Leu Ser Val Leu Ala Arg Lys  
 145 150 155

Leu Ala Glu Lys Gln Glu Gln Asn Asp Gln Tyr Thr Pro Ser Asn Arg  
 165 170 175

Phe Ile Trp Asn Gln Gly Lys Trp Leu Pro Asn Ser Thr Thr Thr Cys  
 180 185 190

Ser Leu Ser Pro Asp Ser Ala Ile Leu Lys Leu Lys Ala Ala Ala Asn  
 195 200 205

Ala Val Leu Gln Asp Lys Ser Leu Thr Arg Thr Glu Glu Thr Met Arg  
 210 215 220

Phe Glu Ser Phe Ser Ser Pro Phe Ser Ser Gln Ser Ala Ser Ser Thr  
 225 230 235 240

Leu Ala Ala Leu Ser Lys Lys Val Ser Gln Arg Ser Leu Thr Pro Gly  
 245 250 255

Gln Glu His Pro Pro Pro Ala Ser Ser Phe Leu Ser Leu Ala Ser Met  
 260 265 270

Thr Ser Ser Ala Ala Leu Leu Lys Gln Val Ala Ala Arg Ala Ala Gly  
 275 280 285



Arg Leu Leu Ala Gln Lys Ser Ser Leu Leu Ser His Asp Phe Leu Phe  
240 241 242

Pro Pro Pro Ser Gln Lys Lys Pro Gln Lys Val Thr Pro Pro Pro Phe  
318 319 320 321 322

Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Gln Ser Leu Glu Leu  
325 330 335

Leu Leu Leu Pro Val Pro Lys Gly Arg Val Ser Lys Pro Ser Asn Ser  
340 345 350

<210> 151  
<211> 67  
<212> PRT  
<213> Homo sapien

<400> 151

Met Gly Tyr Gln Trp Tyr Arg Leu Arg Val Asn Ser Ile Ser Gly Phe  
1 5 10 15

His Gly Ser Leu Glu Gln His Leu Pro Val Ser Ser Ala Phe His Gln  
20 25 30

Arg Trp Asp Leu Trp Ser Thr Gly Cys Leu Thr Pro Gly Ala Ile Glu  
35 40 45

Lys Gly Glu Asp Leu Trp Lys Ala Phe Val Leu Ala Pro Val His Leu  
50 55 60

Val Leu Asn  
65

<210> 152  
<211> 52  
<212> PRT  
<213> Homo sapien

<400> 152

Met Lys Glu Gly Val Leu Gly Ser Val Phe Arg Pro Lys Cys Pro Gln  
1 5 10 15

Gly Pro Ser Gly Cys Leu Tyr Leu Leu Met Ser Pro His Thr Cys Trp  
20 25 30

Gln Ser Trp Asp Lys Ser Leu Thr Leu Tyr Val Thr Ser Asp Ser Phe  
 38 41 41

Trp Lys Lys Glu  
 51

<210> 153  
 <211> 63  
 <212> PRT  
 <213> Homo sapien

<400> 153

Met Arg Thr Glu Ile Ser Trp Ser Val His Glu Glu Glu Trp Ile Gln  
 1 5 10 15

Leu Leu Val Leu Ala Leu Cys Ser Leu Asn Ala Leu Tyr Phe Leu Leu  
 20 25 30

Phe Tyr Leu Thr Ile Phe Phe Trp Phe Ala Phe Thr Val Asn Asn Ile  
 35 40 45

Phe Ser Ser Phe Leu Ala Leu Ala Phe Leu Ala Asp Arg Lys Trp  
 50 55 60

<210> 154  
 <211> 98  
 <212> PRT  
 <213> Homo sapien

<400> 154

Met Lys Asn Gln Pro Leu Gly Gly Leu Leu Leu Leu Gly Gln Ile  
 1 5 10 15

Phe Met Trp Pro Thr Arg Leu Cys Ala Ala Gln Leu Cys Leu Pro Ala  
 20 25 30

Ser Leu Val Leu His Thr Val Leu Ser Ile Val Ser Val Ala Trp Pro  
 35 40 45

Tyr Pro Ser Ser Cys Leu Pro Ile Leu Asn Tyr Ile Thr Cys Phe Leu  
 50 55 60

Ala Ser Gly Pro Leu His Met Leu Phe Met Leu Leu Gly Val Phe Cys  
 65 70 75 80

Ser Phe Leu His Pro Gln Pro Leu Pro Leu Asp Cys Thr Pro Gln Gly

Arg Ser

<210> 155  
 <211> 57  
 <212> PRT  
 <213> Homo sapien

&lt;400&gt; 155

Met Val Tyr Thr Phe Ser Cys Phe Phe Ser Ser Phe Leu Glu Ser Gly  
 1 5 10 15

Asp Thr His Arg Arg Ile Asn Gly Ser Gly Lys Val Pro Gly Leu Met  
 20 25 30

His Glu Glu Asp Leu Val Arg Leu Glu Thr Cys Leu Ala Ser Gln Gly  
 35 40 45

Ser Ala Val Ser Tyr Pro Cys Ala Lys  
 50 55

<210> 156  
 <211> 69  
 <212> PRT  
 <213> Homo sapien

&lt;400&gt; 156

Asp Thr Glu Ser Gly Trp Asp Asp Thr Ala Val Val Asn Asp Leu Ser  
 1 5 10 15

Ser Thr Ser Ser Gly Thr Glu Ser Gly Pro Gln Ser Pro Leu Thr Pro  
 20 25 30

Asp Gly Lys Arg Asn Pro Lys Gly Ile Lys Lys Ser Trp Gly Lys Ile  
 35 40 45

Arg Arg Thr Gln Ser Gly Asn Phe Tyr Thr Asp Thr Leu Gly Met Ala  
 50 55 60

Glu Phe Arg Arg Gly Gly Leu Arg Ala Thr Ala Gly Pro Gly Leu Ser  
 65 70 75 80

Arg Thr Arg Asp Phe Lys Gly Gln Lys  
 85

<211> 157  
 <211> 157  
 <212> PRT  
 <213> Homo sapien

<401> 157

Met Ser His Ser Pro Val Leu Pro Ala Pro Gln Ser Ser Val Gly Tyr  
 1 5 10 15

Pro Val Arg Pro Ser Pro Cys Thr Pro Phe Phe Ser Leu Ile Glu Ile  
 20 25 30

Pro Ala Thr Cys Cys Leu Leu Pro Cys Arg Ile Thr Asn Ala Cys Pro  
 35 40 45

Val Pro Gly Ile Glu Ala Ala Ile Ala Gly Leu Leu Pro Cys Ser Arg  
 50 55 60

His  
 65

<210> 158  
 <211> 51  
 <212> PRT  
 <213> Homo sapien

<400> 158

Met Val Ala Arg Ile Lys Ser Glu Lys Pro Gly Asn Ser Lys Leu Leu  
 1 5 10 15

Glu Ile Leu Val Ile Leu Thr Arg Arg Val Glu Val Lys Val Met Lys  
 20 25 30

Cys Gly Lys Phe Trp Lys Pro Phe Gln Ser Lys Ala Glu Ser Ile Cys  
 35 40 45

Cys Tyr Ile  
 50

<210> 159  
 <211> 116  
 <212> PRT  
 <213> Homo sapien

<220>

<221> MISC\_FEATURE

<222> 33 .. 33  
 <223> X=any amino acid

<400> 150

Met Ala Gly Leu Leu Asn Val Thr Phe Ile Tyr Leu Leu Leu Gln Cys  
 1 5 10 15

Leu Ser Leu Tyr Thr His Val Thr Cys Ser Ser Leu Pro Ser Ser Leu  
 20 25 30

Xaa Leu Tyr Ile Tyr Tyr Tyr His Arg Gly Leu Gly Lys Lys Thr Pro  
 35 40 45

Thr Ala Ala Pro His Thr His Pro Pro Ala Leu Tyr His Leu Leu Gly  
 50 55 60

Phe Val Phe Leu Cys Arg Ile His Asp Phe Leu Lys Tyr Asn Phe Phe  
 65 70 75 80

Asn Val Tyr Ile Leu Tyr Ala Phe Ser His Ser Tyr Val Lys Ser Gly  
 85 90 95

Arg His Arg Leu Val Phe Leu Phe Thr Val Asp Ala Ser Val Pro Lys  
 100 105 110

Ile Cys Ile Ala  
 115

<210> 160  
 <211> 81  
 <212> PRT  
 <213> Homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (23) ... 31  
 <223> X=any amino acid

<400> 150

Met Gln Asn His His Ile Pro His Cys Ile Ala Val Ala Ser Trp Pro  
 1 5 10 15

Leu Ile Asn Cys Lys Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Val  
 20 25 30

Tyr Ile Cys Ile His Val Ile Ile Tyr Ala Tyr Val Met Tyr Met Pro  
 15 4 41

Thr Tyr Leu Cys Thr Cys Asn Val Tyr Ala Tyr Ile Cys Ile Tyr Lys  
 40 41 41

Gly Ile Gln Ile Cys Ile Tyr Leu Arg Lys Thr Ile Lys Asn Leu Cys  
 45 50 55 60

Ser

<210> 161  
 <211> 39  
 <212> PRT  
 <213> Homo sapien

<400> 161

Met His Thr Gln Val His Met Phe Thr Glu Ser Gln Val Gln Glu Arg  
 1 5 10 15

Ser Lys Glu Pro Lys Leu Glu Ala Thr His Met Phe Ile Asn Ser Arg  
 20 25 30

Asp Asp Lys Ile Tyr Leu Asp  
 35

<210> 162  
 <211> 40  
 <212> PRT  
 <213> Homo sapien

<400> 162

Met Phe Ala Ser Gly Pro Pro Cys His Val Lys Ser Thr Leu Tyr Ser  
 1 5 10 15

Leu Phe Leu Glu Arg Thr Tyr Tyr Val Asn Leu Asp Phe His Met Val  
 20 25 30

Ile Thr Leu Tyr Glu Ala Asn Ile  
 35 40

<210> 163  
 <211> 73  
 <212> PRT  
 <213> Homo sapien

<411> 163

Met Gln Asn Ser Val Ser Thr Gln Arg Phe Asn Val Tyr Ser Phe Lys  
1 5 10 15

Gln Ile Ser Phe Asp Ser Leu Gln Tyr Phe Phe Leu Asn Ile Leu Ser  
21 25 30

Pro Ser Met Glu Ser Cys Pro Lys Lys Ala Glu Arg Lys Glu Lys Lys  
35 40 45

Lys Arg Lys Leu Asn Phe Leu Asn Ser Ile Ser His Cys Leu Gly His  
50 55 60

Val Cys Lys Trp Pro Thr Leu Pro Arg  
65 70

<210> 164

<211> 37

<212> PRT

<213> Homo sapien

<400> 164

Met Lys Cys Phe Asp Ile Trp Asn Phe Leu Pro Leu Phe His Phe Ala  
1 5 10 15

Val Asn Gln Ser Glu Phe Arg Ser Ile Met Trp Ile Tyr Glu Asn Val  
20 25 30

Ser Asn Gly Leu Phe  
35

<210> 165

<211> 55

<212> PRT

<213> Homo sapien

<220>

<221> MISC\_FEATURE

<222> 18'..42'

<223> X=any amino acid

<400> 165

Met Gln Ile Leu Trp Leu Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

|   |    |  |    |  |    |
|---|----|--|----|--|----|
|   | 21 |  | 22 |  | 31 |
| Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser Asn Pro Arg Leu Cys |    |  |    |  |    |
|   | 31 |  | 41 |  | 46 |

|                             |    |
|-----------------------------|----|
| Leu Leu Val Ala Leu Lys Pro |    |
| 50                          | 55 |

<210> 166  
 <211> 48  
 <212> PRT  
 <213> Homo sapien

<400> 166

|   |    |
|---|----|
| Met Cys Ala Lys Val Leu Val Leu Ser Arg Lys Asp Thr Asp Glu Cys |    |
| 1   | 15 |
|   | 5  |
|   | 10 |

|   |    |
|---|----|
| Tyr Arg Leu Leu Lys Asn Ile Tyr Leu Asn Lys Tyr Val Lys Tyr Lys |    |
|   |    |
| 20  | 30 |
| 25  |    |

|   |    |
|---|----|
| Gly Ile Gln Tyr Ser Asn Arg Asn Ile Gln Ile Gln Gly Thr Ser Pro |    |
|   |    |
| 35  | 45 |
| 40  |    |

<210> 167  
 <211> 95  
 <212> PRT  
 <213> Homo sapien

<400> 167

|   |    |
|---|----|
| Met Cys Leu Phe Cys Ser His Ser Val Tyr Lys Pro Leu Tyr Glu Thr |    |
| 1   | 15 |
|   | 5  |
|   | 10 |

|   |    |
|---|----|
| Gly Ser Ser Gln Leu Phe Phe Tyr Ser Thr Leu Lys Ile Leu Val Ser |    |
|   |    |
| 20  | 30 |
| 25  |    |

|   |    |
|---|----|
| Phe Leu Val Ser Thr Val Ala Lys Ala Tyr Cys Gln Phe Asp Tyr His |    |
|   |    |
| 35  | 45 |
| 40  |    |

|   |    |
|---|----|
| Ser Ile Ile Gln Asn Phe Phe Leu Tyr Leu Tyr Ser Glu Phe Gln Ile |    |
|   |    |
| 50  | 60 |
| 55  |    |

|   |    |
|---|----|
| Phe Ser Leu Ser Leu Ile Ser Tyr Asp Phe Ile Ile Met Tyr Val Val |    |
|   |    |
| 65  | 80 |
| 70  | 75 |

|   |    |
|---|----|
| Val Asp Leu Ser Ile Leu Cys Tyr Ile Trp Gln His Phe Leu Phe |    |
|   |    |
| 85  | 95 |
|   | 90 |



<210> 168  
 <211> 80  
 <212> PRT  
 <213> Homo sapien

<400> 168

Met Asn Asn Arg Trp Met Leu Pro Pro Phe Ser Pro Arg Arg Asn Lys  
 1 5 10 15

Gly Lys Gly Glu Gly Leu Gly Gly Trp Ile Ser Arg Gln Thr Gly Glu  
 20 25 30

Cys Glu Gly Thr Ile Arg Arg Glu Val His Pro Glu Ile Arg Tyr Val  
 35 40 45

Ser Pro Leu Arg Phe Pro Thr Ile Asp Ser Glu Leu Leu Glu Ser Val  
 50 55 60

Ser Ser Ile Ser Asp Ala Val Gly Ser Ser Lys Ser Gly Lys Tyr Ser  
 65 70 75 80

Cys Thr Phe Val Pro Glu Ser Ser Asn  
 85

<210> 169  
 <211> 42  
 <212> PRT  
 <213> Homo sapien

<400> 169

Met Glu Ser Ser Leu Glu Thr Cys Ala Ser Ser Asn Pro Leu Arg Leu  
 1 5 10 15

Lys Lys Thr Ser Phe Leu Ser Gln Glu Thr Pro Gly Arg Leu Phe Ile  
 20 25 30

Leu Pro Thr Thr Trp Pro Asn Ala His Asn  
 35 40

<210> 170  
 <211> 130  
 <212> PRT  
 <213> Homo sapien

<400> 170

Met Gly Arg Arg Thr Arg Thr Val Arg Val Ser Arg Leu Pro Pro Ala  
1 5 10 15

Thr His Ser Cys Ser Fr Pro Pro Ile Tyr Ala Leu Ala Leu Pro Ala  
20 25 30 35 40 45

Phe Trp Pro Ser Gly Ala Val Leu Val Pro Ala Leu Ala Gln Ala Cys  
35 40 45

Phe Ser Ser Leu Pro Thr Asn Phe Leu Ser Ser Cys Gly Cys Ala Tyr  
50 55 60

Leu Val Trp Val Trp Phe Trp Leu Leu Asn Glu Gln Arg Gln Asn Glu  
65 70 75 80

Gly Ala Met Ser Thr Asp Glu Ala Phe Gly Lys Arg Pro Pro Ser Ile  
85 90 95

Ala Leu Leu Glu Gly Ser Val Glu Ala Ala Val Phe Pro Gly Ala Gly  
100 105 110

His Leu Asp Thr Val Pro Ala Cys Thr Gln Pro Pro Ser Thr Leu Leu  
115 120 125

His Gln Pro Ala  
130

<210> 171  
<211> 121  
<212> PRT  
<213> Homo sapien

<400> 171

Met Val Ser Cys Asn Tyr Gly Tyr Val Arg Val Gln Arg Arg Glu Ser  
1 5 10 15

Cys Val Gly Trp Ser Gly Leu Glu Arg Leu Gly Thr Glu Leu Gly Val  
20 25 30

Glu Leu Gly Trp Pro Ala Ala Glu Gly Ala Glu Met Gly Trp Gly Gly  
35 40 45

Pro Ser Ser Gln Pro Pro Gly Thr Phe Pro Glu Gly Pro Ala Val Gly  
50 55 60

Leu Cys Thr Arg Gln Ile Ala Ser Leu Phe Asn Thr Pro Ser Leu Trp  
 25 50 75

Ala Leu His Leu Pro Thr Gly Ala Leu Gln Gln Ala Arg Leu Gln Leu  
 85 110 135 160

Arg His Val Gln Pro Gln Thr Phe Ala Pro Ala Ser Pro Pro Arg Leu  
 100 125 150 175

Pro Arg Glu Leu Gly Lys Gly Leu Cys  
 115 140 165 190

<210> 172  
 <211> 107  
 <212> PRT  
 <213> Homo sapien

<400> 172

Met Val Leu Pro Gln Asp Phe Leu Ala Glu Pro Gly Ile Leu Leu Thr  
 1 5 10 15

Leu Pro Ser His Gly Asn Met Ala Leu Ala Cys Trp Arg Leu Trp Ala  
 20 25 30

Pro Phe Leu Ala Ala Val Leu Pro Gly Val Ala Lys Asp Ser Ser Tyr  
 35 40 45

Pro Leu Pro Arg Ile Leu Val Ser Arg Leu Ser Leu Leu Val Thr Gly  
 50 55 60

Ser Glu Trp Asn Thr Val Gln Val Arg Glu Gly Thr Asn Arg Pro Cys  
 65 70 75 80

Phe Asn Ser Pro Cys Phe Pro Pro Val Pro Tyr Arg Pro Ser Leu Ser  
 85 90 95

Pro Gly Val Ser Ile Gln Asn Ser Ala Tyr Leu  
 100 105

<210> 173  
 <211> 107  
 <212> PRT  
 <213> Homo sapien

<400> 173

Met Val Leu Pro Gln Asp Phe Leu Ala Glu Pro Gly Ile Leu Leu Thr

<400> 174

Ala 100 Thr 105 Ile 110 Glu 115 Asn 120 Ser 125 Glu 130 Met 135 Gly 140 Val 145  
50 55 60

|       |         |
|-------|---------|
| 00000 | 175     |
| 00010 | 65      |
| 00020 | 33      |
| 00030 | 1000000 |

<400> 175

Met Val Trp Trp Ser Leu Gly Leu Thr Leu Thr Arg Glu Arg Asn Ala  
1 3 11 15

Asp Phe Ser Phe Thr Ile Pro Ser Gly Leu His Arg Tyr Pro Ser Lys  
17 21 31

Val Arg Arg Asp Phe Cys Cys Tyr Leu Ser Ser Cys Phe Ser Ala Glu  
35 40 45

Ala Leu Thr Lys Ile Glu Ile Asn Ile Ser Glu Met Gly Ile Val Leu  
50 55 60

Ile  
65

<210> 176

<211> 92

<212> PRT

<213> Homo sapien

<400> 176

Met Tyr Lys Arg Lys Val Tyr Pro Val Ser Ser Pro Leu Met Val Thr  
5 10 15

Leu Glu Thr His Val Leu Lys Thr Arg Ser Gly Pro Gly Thr Ala Pro  
20 25 30

Asp Pro Ala Phe Pro Ser Tyr Thr Ala His Phe Cys Leu Ser Thr His  
35 40 45

Gly Gly Cys His Ser Ala Glu Met Pro Ala Gly Leu Thr Ser Thr Pro  
50 55 60

Phe Ile Asn Asn Ala Ala Pro Thr Ser Thr His Val Trp Ile Ser Thr  
65 70 75 80

His Leu Ser Ser Phe Leu Arg Ile Asp Phe Lys Met  
85 90

<210> 177

<211> 114

<212> PRT

<213> Homo sapien

<400> 177

Met Phe Ser Asn Tyr Tyr Cys Lys Lys Val Ile His Ala Tyr Glu Lys  
1 5 11 11

Asn Leu Tyr Asn Thr Thr Met Tyr Lys Arg Lys Val Tyr Pro Val Ser  
21 22 31

Ser Pro Leu Met Val Thr Leu Glu Thr His Val Leu Lys Thr Arg Ser  
35 40 45

Gly Pro Gly Thr Ala Pro Asp Pro Thr Phe Pro Ser Tyr Thr Ala His  
51 55 61

Phe Cys Leu Ser Thr His Gly Gly Cys His Ser Ala Glu Met Pro Ala  
65 70 75 80

Gly Leu Thr Ser Thr Pro Phe Ile Asn Asn Ala Ala Pro Thr Ser Thr  
85 90 95

His Val Trp Ile Ser Thr His Leu Ser Ser Phe Leu Arg Ile Asp Phe  
100 105 110

Lys Met

<210> 178

<211> 47

<212> PRT

<213> Homo sapien

<400> 178

Met Glu Leu Pro Phe Cys Lys Glu Phe Ile Ser Asp Asp Ile Thr Thr  
1 5 10 15

Phe Leu Tyr Val Ser Leu Tyr Ile His Leu Ile Val Leu Leu Lys Trp  
20 25 30

Phe Leu Lys Cys Ile His Arg Tyr Phe Gly Tyr Leu Gly Arg Gly  
35 40 45

<210> 179

<211> 43

<212> PRT

<213> Homo sapien

<400> 179

Met Asn Leu Leu Ile Leu Ser Leu Ser Asn Tyr Pr Lys Asn Gln Phe  
1 17 15

Val Phe Leu Val Ile Ala Gly Asn Arg Gly Leu Cys Leu Ile Asn Gln  
2 18 10

Lys Gly Ser Ser Leu Gly Ala Val Ile Tyr  
38 40

<210> 180  
<211> 24  
<212> PRT  
<213> Homo sapien

<400> 180

Met Lys Arg Val Leu Ser Tyr Asp Leu Asn Leu Thr Ala Glu Lys Ser  
1 5 10 15

Ser Ile Phe Gln Leu Ser Ala Val  
20

<210> 181  
<211> 69  
<212> PRT  
<213> Homo sapien

<400> 181

Met Ser Leu Ser Val His Gln Glu Gln Cys Thr Ala Gln Arg Asp Pro  
1 5 10 15

Gly Gln Leu Glu Gly Arg Gly Phe Ala Gln Val Pro Glu Pro Asp Gly  
20 25 30

Thr Leu Trp Cys Leu Gly Arg Asn Leu Asp Phe Gly Leu Arg Gly Ser  
35 40 45

Arg His Val Gln Trp Gln Gln Phe Gly Gln Gly Gly Asp Glu Leu Ser  
50 55 60

Cys Phe Leu Leu Arg  
65

<210> 180  
<211> 20  
<212> PRT  
<213> Homo sapien

<210> 181

Met Lys Gln Glu Ser Val Leu Gln Ser Leu Tyr Thr Ile Lys Thr Val  
1 5 10 15

Gly Ile Thr Lys  
20

<210> 183

<211> 136

<212> PRT

<213> Homo sapien

<400> 183

Asn Glu Tyr Lys Ala Glu Ile Ala Glu Val Glu Arg Gln Ile Leu Gln  
1 5 10 15

Gly Glu Gln Ser Tyr Ser Ser Ala Leu Glu Gly Met Lys Met Glu Ile  
20 25 30

Ser His Leu Thr Gln Glu Leu His Gln Arg Asp Ile Thr Ile Ala Ser  
35 40 45

Thr Lys Gly Ser Ser Ser Asp Met Glu Lys Arg Leu Arg Ala Glu Met  
50 55 60

Gln Lys Ala Glu Asp Lys Ala Val Glu His Lys Glu Ile Leu Asp Gln  
65 70 75 80

Leu Glu Ser Leu Lys Leu Glu Asn Arg His Leu Ser Glu Met Val Met  
85 90 95

Lys Leu Glu Leu Gly Leu His Glu Arg Trp Gly Phe Thr Met Leu Ser  
100 105 110

Ser Leu Val Leu Asn Phe Gly Ile Gln Ala Ile Arg Gln Pro Gln Arg  
115 120 125

Pro Lys Val Leu Glu Leu Gln Val  
130 135

<210> 184

<211> 47

<212> PRT

<213> Homo sapien

<220>



<221> MISC\_FEATURE  
 <222> 8 11 8  
 <223> X-any amino acid

<410> 184

Met Lys Asn Trp Arg Phe Ser Xaa Arg Gly Gln Arg Lys Trp Asp Ile  
 1 5 10 15

Lys Asn Asn Trp Lys Lys Ile Ala Glu Ile Val Leu Lys Leu Thr Asn  
 20 25 30

His Thr Lys Pro Gln Asn Pro Glu Ala Leu Gly His Gln Ala Gly  
 35 40 45

<210> 185  
 <211> 30  
 <212> PRT  
 <213> Homo sapien

<400> 185

Met Tyr His Phe Tyr Asn Lys Glu Phe Ile Asn Arg Asn Lys His Ile  
 1 5 10 15

Leu Leu Leu Ala Ser Ala Ala His Ile Leu Glu Ile Ser Thr  
 20 25 30

<210> 186  
 <211> 86  
 <212> PRT  
 <213> Homo sapien

<400> 186

Ala His Cys Ser Phe Lys Leu Gln Ser Ala Ser Asn Leu Pro Thr Ser  
 1 5 10 15

Ala Ser Gln Val Ala Gly Thr Thr Gly Arg Arg His Gln Ala Arg Pro  
 20 25 30

Ile Phe Val Phe Phe Val Glu Thr Arg Phe Arg His Ile Ala Gln Ala  
 35 40 45

Gly Leu Gln Leu Leu Ser Ser Ser Asp Pro Thr Thr Ser Ser Ser Gln  
 50 55 60

Ser Ala Gly Ile Ile Gly Val Thr Ala Ala Ala Gly Ser Gln Ala Val  
 65 70 75 80

Leu Phe Cys Ile Ile Arg  
 51

<211> 187  
 <211> 40  
 <212> PRT  
 <213> Homo sapien

<400> 187

Met Phe Ser Lys Pro Gly Tyr Ser Gln Ser Leu Trp Leu Leu Leu Met  
 1 5 10 15

Ser Phe Ala Gly Glu Ser His Glu Thr Val Leu Ile Cys Ala Tyr Ser  
 20 25 30

Pro Gln Cys Tyr Leu Ser Ala Leu  
 35 40

<210> 188  
 <211> 59  
 <212> PRT  
 <213> Homo sapien

<400> 188

Met Arg Ile Ile Ser Thr Phe Cys Ser Tyr Gly Lys Asp Leu Lys Ala  
 1 5 10 15

Asp Ala Cys Ala Arg Asp Met Val Asp Thr Thr Tyr Ile Ala Val Met  
 20 25 30

Ile Leu Leu Tyr Tyr Ser Val Leu Tyr Leu Leu Leu His Thr Leu Pro  
 35 40 45

Leu Pro Ile Met Thr Lys Ile Ile Thr Ala Tyr  
 50 55

<210> 189  
 <211> 35  
 <212> PRT  
 <213> Homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> 81..151  
 <223> X=any amino acid

<221> 189  
 <221> MISS\_FEATURE  
 <222> 34 11 34  
 <223> Many amino acids

<400> 189

Met Arg Pro Phe Pro Val Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Val  
 1 5 10 15

Phe Thr Ser Gly Glu Ala Ala Val Leu Leu Cys Leu Phe Leu Leu Cys  
 20 25 30

Trp Xaa Val  
 35

<210> 190  
 <211> 46  
 <212> PRT  
 <213> Homo sapien

<400> 190

Met Val Leu Lys Val Asn Ser Arg Met Val Ala Trp Val Phe Lys Val  
 1 5 10 15

Trp Phe Leu Leu Asn Ala Ser Gly Phe Leu Thr Asn Ile Lys Ser Lys  
 20 25 30

Lys Lys Lys Lys Asn Leu Leu Val Ala Ile Arg Arg Leu Gln  
 35 40 45

<210> 191  
 <211> 96  
 <212> PRT  
 <213> Homo sapien

<400> 191

Met Ser Ser Pro Gln Phe Ser Leu Arg Val Phe Ala Phe Ser Leu Leu  
 1 5 10 15

Thr Ser Thr Pro Leu Met Ser Leu Pro Ile Ala Pro Asn Ser Gly Ser  
 20 25 30

Gln His Trp Tyr Ile Gln Val Trp Gln Arg Ala Ser Ser Thr Pro Gly  
 35 40 45

Met Ala Ser Pro Lys Gln Gln Glu Glu Val Gly Glu Val Leu Phe Pro

Ser Thr Ala Val Ala Leu Trp Trp Lys Val Arg Phe Pro Asn Gln Leu  
 45                      70                      75                      80

Arg Arg Val Gln Gln Ala Thr Arg Gln Val Asn Pro Phe Thr Ser Gly  
                     85                      90                      95

<210> 192  
 <211> 54  
 <212> PRT  
 <213> Homo sapien  
  
 <220>  
 <221> MISC\_FEATURE  
 <222> (24)...(24)  
 <223> X=any amino acid

<400> 192

Met Leu Phe Met Trp Lys Val Lys Phe Cys Phe Ile Met Glu Phe Cys  
 1                      5                      10                      15

Phe Leu Tyr Asn Ser Phe Arg Xaa Ser Tyr Phe Ala Thr Ile Leu Tyr  
                     20                      25                      30

Lys Ala Leu Arg Gln Val Met Val Ile Ile Leu Met Gln Asn His Leu  
                     35                      40                      45

Gly Ser Gln Ser Leu Ala  
                     50

<210> 193  
 <211> 57  
 <212> PRT  
 <213> Homo sapien

<400> 193

Met Tyr Pro Leu Val His Gly Arg Pro Ser Ser Ile Ser Arg Gly Gln  
 1                      5                      10                      15

Val His Leu Val Arg Ala Gln Lys Leu His Ser Gln Thr Asn Glu Ser  
                     20                      25                      30

Ser Gln Asn Ile Phe Leu Arg Leu Trp Val Tyr Leu Tyr Arg Asn His  
                     35                      40                      45

Trp Met Leu Leu Ser Leu Phe Ser Ile  
1 55

<210> 194  
<211> 87  
<212> PRT  
<213> Homo sapien

<400> 194

Met Tyr Pro Leu Val His Gly Arg Pro Ser Ser Ile Ser Arg Gly Gln  
1 5 10 15

Val His Leu Val Arg Ala Gln Lys Leu His Ser Gln Thr Asn Glu Ser  
20 25 30

Ser Gln Asn Ile Phe Leu Arg Leu Trp Val Tyr Leu Tyr Arg Asn His  
35 40 45

Trp Met Leu Leu Ser Leu Phe Ser Phe  
50 55

<210> 195  
<211> 91  
<212> PRT  
<213> Homo sapien

<400> 195

Met Gly Lys Glu Ala Ile Leu Ile Gly Pro Arg Glu His Val Gly Leu  
1 5 10 15

Lys Leu Val Leu Val Thr Gly Ile Leu Tyr Thr Phe Ile Val Gly Glu  
20 25 30

Lys Ala Ala Ile Thr Ser Ala Met Lys Val Leu Leu Ile His Gly Leu  
35 40 45

Asn Ile Ile Glu Met Leu Leu Val Leu Cys Arg Ala Asp Ser Ser Arg  
50 55 60

Thr Lys Glu Trp Gln Ser Asp Glu Leu Arg His Ile Arg Asp Pro Thr  
65 70 75 80

Val Gln Met Met Thr Gln Asn Leu Phe Leu Leu  
85 90

<210> 196

<211> 0p  
 <212> PRT  
 <213> Homo sapien

<400> 196

Met Arg Thr Ala Gln Gln Cys Ile Gln Arg His Gln His Leu Ala Ala  
 1 5 10 15

Leu Gln Ser Gly Pro His Lys Phe Gly Gly Ile Gln Ala Leu Pro Lys  
 20 25 30

Arg Ala Gly Gly Cys Ser Phe Leu Leu His Phe Leu Ser Gln Arg Pro  
 35 40 45

Arg Glu Leu Ser Pro Gln Thr Lys Gly Lys Gly Arg Leu Gln Ser Ser  
 50 55 60

Leu Tyr Leu Ala Leu Asn Ala Ser Ser Leu Cys Gly Pro Ala Arg  
 65 70 75

<210> 197  
 <211> 40  
 <212> PRT  
 <213> Homo sapien

<400> 197

Met Thr Asp Ile Glu Trp Asp Cys Ser Arg Gln Met Gly Met Asn Gly  
 1 5 10 15

His Pro Thr Cys Lys Asp Thr Met Gly Ser Ala Asp Glu Met Gly Pro  
 20 25 30

Val Thr Glu Lys Leu Leu Pro Pro  
 35 40

<210> 198  
 <211> 40  
 <212> PRT  
 <213> Homo sapien

<400> 198

Met Thr Asp Ile Glu Trp Asp Cys Ser Arg Gln Met Gly Met Asn Gly  
 1 5 10 15

His Pro Thr Cys Lys Asp Thr Met Gly Ser Ala Asp Glu Met Gly Pro  
 20 25 30

Val Thr Glu Lys Leu Leu Arg Pro  
 15 40

<210> 199  
 <211> 76  
 <212> FRT  
 <213> Homo sapien

<400> 199

Met Thr Leu Leu Leu Arg Arg Pro Glu Leu Trp Cys Cys Gly Met Thr  
 1 5 10 15

Val Cys Leu Leu Thr Ser Ala Ser Ser His Ser Pro Pro Arg Ser Pro  
 20 25 30

Cys Pro Thr Pro Gly Val Ser Arg Gly Arg Gln Val Thr Thr Met Leu  
 35 40 45

Arg Val Ser Asp Gly Pro Glu Ala Gly Leu Thr Gln Leu Tyr Pro Lys  
 50 55 60

Ala Glu Ser Gly Ser Pro Arg Leu Ser Ala His Gly  
 65 70 75

<210> 200  
 <211> 78  
 <212> FRT  
 <213> Homo sapien

<400> 200

Met Cys Asp Leu Cys Asp Arg Leu Glu Ser Cys Gly Lys Pro Val Leu  
 1 5 10 15

Val Arg Glu Ser Leu Gly Pro Phe Pro His Arg Ala Leu Phe Ser Lys  
 20 25 30

Ser His Ser Trp Val Thr Asn Val Asp Ala Gly Pro Met Pro Cys Pro  
 35 40 45

Gly Gly Leu Ala Pro Gly Ser Pro Glu Asn Thr Ser Gly Arg Trp Glu  
 50 55 60

Val Trp Trp Gly Ser Leu Ala Arg Val Asp Met Gly Gln Arg  
 65 70 75

<211> 211  
 <211> 211  
 <211> 211  
 <211> 211

<411> 211

Asp Ile Asn Asn Ala Trp Gly Cys Leu Glu Gln Val Glu Lys Gly Tyr  
 1 5 10 15

Glu Glu Trp Leu Leu Asn Glu Ile Arg Arg Leu Glu Arg Leu Asp His  
 20 25 30

Leu Ala Glu Lys Phe Arg Gln Lys Ala Ser Ile His Glu Ala Trp Thr  
 35 40 45

Asp Gly Lys Glu Ala Met Leu Lys His Arg Asp Tyr Glu Thr Ala Thr  
 50 55 60

Leu Ser Asp Ile Lys Ala Leu Ile Arg Lys His Glu Ala Phe Glu Ser  
 65 70 75 80

Asp Leu Pro Glu His Gln Asp Arg Ala Glu Gln Ile Ala Ala Ile Ala  
 85 90 95

Gln Glu Leu Asn Glu Leu Asp Tyr Tyr Asp Ser His Asn Val Asn Thr  
 100 105 110

Arg Cys Gln Lys Ile Cys Asp Gln Trp Asp Ala Leu Gly Ser Leu Thr  
 115 120 125

His Ser Arg Arg Glu Ala Leu Glu Lys Thr Glu Lys Gln Leu Glu Ala  
 130 135 140

Ile Asp Gln Leu His Leu Glu Tyr Ala Lys Arg Ala Ala Pro Phe Asn  
 145 150 155 160

Asn Trp Met Glu Ser Ala Met Glu Asp Leu Gln Asp Met Phe Ile Val  
 165 170 175

His Thr Ile Glu Glu Ile Glu Gly Leu Ile Ser Ala His Asp Gln Phe  
 180 185 190

Lys Ser Thr Leu Pro Asp Ala Asp Arg Glu Arg Glu Ala Ile Leu Ala  
 195 200 205



Ile His Lys Glu Ala Gln Arg Ile Ala His Ser Asn His Ile Lys Leu  
 211 215 220

Ser Gly Ser Asn Pro Tyr Thr Thr Val Thr Pro Gln Ile Ile Asn Ser  
 225 230 235 240

Lys Trp Glu Lys Val Gln Gln Leu Val Pro Lys Arg Asp His Ala Leu  
 245 250 255

Leu Glu Glu Gln Ser Lys Gln Gln Ser Asn Glu His Leu Arg Arg Gln  
 260 265 270

Phe Ala Ser Gln Ala Asn Val Val Gly Pro Trp Ile Gln Thr Lys Met  
 275 280 285

Glu Glu Ile Gly Arg Ile Ser Ile Glu Met Asn Gly Thr Leu Glu Asp  
 290 295 300

Gln Leu Ser His Leu Lys Gln Tyr Glu Arg Ser Ile Val Asp Tyr Lys  
 305 310 315 320

Pro Asn Leu Asp Leu Leu Glu Gln Gln His Gln Leu Ile Gln Glu Ala  
 325 330 335

Leu Ile Phe Asp Asn Lys His Thr Asn Tyr Thr Met Glu His Ile Arg  
 340 345 350

Val Gly Trp Glu Gln Leu Leu Thr Thr Ile Ala Arg Thr Ile Asn Glu  
 355 360 365

Val Glu Asn Gln Ile Leu Thr Arg Asp Ala Lys Gly Ile Ser Gln Glu  
 370 375 380

Gln Met Gln Glu Phe Arg Ala Ser Phe Asn His Phe Asp Lys Lys Gln  
 385 390 395 400

Thr Gly Ser Met Asp Ser Asp Asp Phe Arg Ala Leu Leu Ile Ser Thr  
 405 410 415

Gly Tyr Ser Leu Gly Gln Ala Gln Phe Asn Arg Ile Met Ser Leu Val  
 420 425 430

Asp Pro Asn His Ser Gly Leu Val Thr Phe Gln Ala Phe Ile Asp Phe  
 435 440 445

Met Ser Arg Glu Thr Leu Asp Thr Asn Thr Ala Asn Gln Val Ile Ala  
461 461 461

Ser Phe Lys Val Leu Ala Gly Asp Lys Asn Phe Ile Thr Ala Gln Gln  
471 471 471 471 471

Leu Arg Arg Glu Leu Pro Pro Asp Gln Ala Gln Tyr Cys Ile Ala Arg  
481 481 481 481 481

Met Ala Pro Tyr Gln Gly Pro Asp Ala Val Pro Gly Ala Leu Asp Tyr  
501 501 501 501 501

Lys Ser Phe Ser Thr Ala Leu Tyr Gly Glu Ser Asp Leu  
511 511 511 511 511

<210> 202  
<211> 83  
<212> PRT  
<213> Homo sapien

<400> 202

Met Trp Pro Gly Val Gly Gln Lys Asn Leu His Lys Asp Arg Ile Leu  
1 5 10 15

Phe Ser Glu Ala Lys Asn Ser Arg Gly Ala Thr Ile Arg Phe Phe Ser  
20 25 30

Ala Val Gln Leu Gln Glu Met Leu Gly Ile Ser Tyr Asn Ser His Leu  
35 40 45

Ser Lys Thr Tyr Pro Gly Arg Cys Ser Ala Phe Ser His Leu Gly Ala  
50 55 60

Glu Gln Pro Tyr Ile Ala Val Tyr Ile Leu Thr Tyr Phe Pro Asp Phe  
65 70 75 80

Leu Gly Gly

<210> 203  
<211> 83  
<212> PRT  
<213> Homo sapien

<400> 203

Met Trp Pro Gly Val Gly Gln Lys Asn Leu His Lys Asp Arg Ile Leu  
1 5 10 15

Phe Ser Gln Ala Lys Asn Ser Arg Gly Ala Thr Ile Arg Phe Phe Ser  
20 25 30 35 40 45

Ala Val Gln Leu Gln Gln Met Leu Gly Ile Ser Tyr Asn Ser His Leu  
35 40 45 50 55 60

Ser Lys Thr Tyr Pro Gly Arg Cys Ser Ala Phe Ser His Leu Gly Ala  
50 55 60 65 70 75 80

Gln Gln Pro Tyr Ile Ala Val Tyr Ile Leu Thr Tyr Phe Pro Asp Phe  
65 70 75 80 85 90 95

Leu Gly Gly

<210> 204  
<211> 62  
<212> PRT  
<213> Homo sapien

<400> 204

Met Ser Leu Ser Val Leu Asp Ser Val Ala Gln Thr Arg Pro Phe Val  
1 5 10 15

Cys Leu Phe Ser Phe Ser Ser Phe Val Asp Tyr Lys Phe Ser Leu Tyr  
20 25 30 35 40 45 50 55

Ser Asn Lys Arg Phe Ser Phe Gln Asn Leu Arg Gln Cys Ser Ser Leu  
35 40 45 50 55 60 65 70 75 80

Lys Met Ile Leu Pro His Arg Trp Ser Arg Ala Ser Gln Trp  
80 85 90 95

<210> 205  
<211> 36  
<212> PRT  
<213> Homo sapien

<400> 205

Met Cys Gln Asn Ile Asp Thr Val Pro Gln Gln Ala Ser Lys His Asn  
1 5 10 15

Lys Cys Tyr Phe Arg His Lys Leu Gln Asp Ser Leu Thr Ile Pro Ala

Lys Leu Ile Gly  
15

<210> 216  
<211> 78  
<212> PRT  
<213> Homo sapien

<400> 206

Met Ser Ser Asn Leu Cys Ser Trp Lys Pro Ser Tyr Gly Arg Val Phe  
1 5 10 15

Pro Pro Ser Ser Ser Ala Phe Tyr Gln Arg Pro Tyr Ser Pro Pro Leu  
20 25 30

Leu Gln Phe Gln Thr Ser Phe Leu Phe His Gln Lys His Ser Pro Ser  
35 40 45

Ser Leu Val Ser Tyr Ser Phe His Thr Gln Lys Gln Asn Ile Phe Lys  
50 55 60

Thr Phe Pro Lys Lys Gln Gln Lys Gly Asn Ser Lys Val His  
65 70 75

<210> 207  
<211> 78  
<212> PRT  
<213> Homo sapien

<400> 207

Met Ser Ser Asn Leu Cys Ser Trp Lys Pro Ser Tyr Gly Arg Val Phe  
1 5 10 15

Pro Pro Ser Ser Ser Ala Phe Tyr Gln Arg Pro Tyr Ser Pro Pro Leu  
20 25 30

Leu Gln Phe Gln Thr Ser Phe Leu Phe His Gln Lys His Ser Pro Ser  
35 40 45

Ser Leu Val Ser Tyr Ser Phe His Thr Gln Lys Gln Asn Ile Phe Lys  
50 55 60

Thr Phe Pro Lys Lys Gln Gln Lys Gly Asn Ser Lys Val His  
65 70 75

<211> 210  
 <211> 18  
 <212> PRT  
 <213> Homo sapien

<400> 210

Met Phe Ile Glu Leu Phe Trp Leu Ile Ile Ser Thr Asp Cys Leu  
 1 5 10 15

<210> 209  
 <211> 47  
 <212> PRT  
 <213> Homo sapien

<400> 209

Met Glu Arg His Thr Gln Ala Leu Cys Gly Arg Val Leu Ser Gly His  
 1 5 10 15

Ser Glu Phe Arg Pro Gly Leu Trp Thr Asn Pro Asn Phe Ala Ser Ala  
 20 25 30

Phe Val Ser Leu Val Lys Pro Val Phe Val Phe Ser Leu Leu Phe  
 35 40 45

<210> 210  
 <211> 77  
 <212> PRT  
 <213> Homo sapien

<400> 210

Met Ser Ser Leu Leu Leu Lys Glu Thr Phe Lys Gln Phe Ser Ser Leu  
 1 5 10 15

His Cys His Leu Ala His Thr Ser Arg Ala Ala Gln His Leu Gln Gly  
 20 25 30

Leu Ser Phe Trp Ala Val Leu Arg Asp Ala Ala Gly Gly Ser Leu Ala  
 35 40 45

Phe Leu Gly Leu Leu Ser Gln Phe Pro Pro Val Leu Leu Ser Gly Cys  
 50 55 60

Pro Ala Phe Gly Cys Trp Ile Leu Gln Val Pro Gln Arg  
 65 70 75

<211> 211  
 211> 7a  
 212> PRT  
 <213> Homo sapien

<411> 211

Met Gly Gln Pro Gly His Gln Lys Gln Leu Pro Ser Asp Ser Asn Ile  
 1 5 10 15

Ser Leu Tyr Leu Phe Lys Val Cys Met Cys Gln Thr Val Pro Ser Thr  
 20 25 30

Leu Tyr Thr Leu Ala Tyr Pro Val Leu Thr Asn Ile Ser Gln Met Gly  
 35 40 45

Ile Thr Val Gln Phe Pro Asp Ile Val Ser Lys Ala Lys Pro Lys Pro  
 50 55 60

Val Cys Thr Arg Ala Cys Ala Leu His Thr Asp Trp Leu Ile  
 65 70 75

<210> 212  
 <211> 61  
 <212> PRT  
 <213> Homo sapien

<400> 212

Met Ser Arg Leu Pro His Thr Pro Ala Leu Ser Phe Pro Ser Gln Gly  
 1 5 10 15

Asn Gly Ser Arg His Thr Pro His Leu Gly Gly Gln Ala Glu Phe Leu  
 20 25 30

Ala Gln Gly Arg His Ser Glu Ser Val Glu Arg Lys Asn Asp Val Ala  
 35 40 45

Arg Thr Leu Leu Gln Val Ser Ile Gly Asn His Lys Pro  
 50 55 60

<210> 213  
 <211> 79  
 <212> PRT  
 <213> Homo sapien

<400> 213

Met Lys Val Pro Gln Ser Pro Val Leu Gln Leu Leu Ala Gln Asp Leu  
 1 5 10 15

Ser Ser Arg Glu Lys Arg Ile Asn Thr Thr Pr Lys Gly Glu Lys Leu  
21 28 31

Leu Leu Ser Ser Ser Gly Asp Leu Ala His Gly Gly Pro Asn Gly Gly  
35 41 48

Pro Ser Leu Ile Ser Asn Ser Pro Ala Asn Ser Pro Leu Asp Thr Arg  
50 55 60

Ala Gly Lys Thr Leu Pro Gln Gly Gln Glu Gly Met Phe Val Ser  
65 70 75

<210> 214

<211> 40

<212> PRT

<213> Homo sapien

<400> 214

Met Arg Asp Gly Pro Pro Phe Gly Pro Pro Trp Ala Lys Ser Pro Glu  
5 10 15

Leu Glu Ser Ser Asn Phe Ser Pro Leu Gly Val Val Leu Ile Leu Phe  
20 25 30

Ser Leu Glu Leu Lys Val Leu Gly  
35 40

<210> 215

<211> 72

<212> PRT

<213> Homo sapien

<400> 215

Met Leu Lys Asn Ser Ser Tyr Asn Leu Phe Tyr Asn Ile Tyr Ser Cys  
1 5 10 15

Thr Tyr Phe Tyr Ile Leu Ser Phe Ile Phe Val Phe Val Ser Phe Ala  
20 25 30

Thr Leu Cys Thr Ser Leu Ser Glu Glu Glu Ser Phe Ser Pro Phe Tyr  
35 40 45

Thr Leu Asn Lys Tyr Leu Asn Ser Tyr Tyr Ser Leu Ile Leu Tyr Lys  
50 55 60

Ala Asp Ser Asn Ile Gly Ser Thr  
 1 10

<211> 216  
 <211> 14  
 <212> PRT  
 <213> Homo sapien

<400> 216

Met Ser Trp Leu Leu Ser Tyr Gln Asn Leu Gly Val Ser Tyr Arg Cys  
 1 5 10 15

<210> 217  
 <211> 39  
 <212> PRT  
 <213> Homo sapien

<400> 217

Met Leu Ser Trp Asn Cys Tyr Ser Pro Pro Ile Ser Ser Leu Ser Ile  
 1 5 10 15

Cys His Pro Asn His Leu Glu Ala Leu Val Leu Asp Ala Leu Gln Tyr  
 20 25 30

Phe Ihe Phe Leu Phe Phe Glu  
 35

<210> 218  
 <211> 24  
 <212> PRT  
 <213> Homo sapien

<400> 218

Met Asn Asp Arg Ala Arg Leu Ser Leu Ser Gln Lys Lys Thr Glu Arg  
 1 5 10 15

Glu Ser Leu Glu Thr Arg His Ser  
 20

<210> 219  
 <211> 84  
 <212> PRT  
 <213> Homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> 28 .. 79  
 <223> X=any amino acid



<411> 219

Met Asp Arg Ala Leu Pro Leu Trp Gly Ser Gln His Pro Ser His Pro  
1 5 10 15

Ser His Ile Ala Leu Val Ser Ile Leu Val Leu Xaa Xaa Xaa Xaa Xaa  
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser  
65 70 75 80

Ile Lys Ile Gln

<210> 220

<211> 32

<212> FRT

<213> Homo sapien

<220>

<221> MISC\_FEATURE

<222> (31).....(31)

<223> X=any amino acid

<400> 220

Met Lys Ile Thr Ser Cys Val Tyr Thr Ile Cys Leu His Leu Ala Asn  
1 5 10 15

Thr Gly Leu His Asp Ser Thr Phe Ala Asn Tyr Leu Trp Leu Xaa Asn  
20 25 30

<210> 221

<211> 786

<212> FRT

<213> Homo sapien

<400> 221

Arg Pro Leu Arg Ser Leu Lys Val Ile Tyr Asp Gly Leu Met Ala Leu  
1 5 10 15

Phe Thr Thr Ser Leu Ile Ala Leu Leu Ser Ser Arg Gly Lys Asn Val  
 21 28 31

Ala Ile Glu Tyr Ile Lys Ile His Thr Ile His Lys Glu Asp Val His  
 31 41 48

Phe Cys Lys Gln Lys Ile Thr Asn Arg Met Leu Lys Leu Lys Leu Asp  
 50 55 60

Thr Glu Glu Ser Pro Val Tyr Gln Val Tyr Val Gln Ala Lys Asp Leu  
 65 70 75 80

Gly Pro Asn Ala Val Pro Ala His Cys Lys Val Ile Val Arg Val Leu  
 85 90 95

Asp Ala Asn Asp Asn Ala Pro Glu Ile Ser Phe Ser Thr Val Lys Glu  
 100 105 110

Ala Val Ser Glu Gly Ala Ala Pro Gly Thr Val Val Ala Leu Phe Ser  
 115 120 125

Val Thr Asp Arg Asp Ser Glu Glu Asn Gly Gln Val Gln Cys Glu Leu  
 130 135 140

Leu Gly Asp Val Pro Phe Arg Leu Lys Ser Ser Phe Lys Asn Tyr Tyr  
 145 150 155 160

Thr Ile Val Thr Glu Ala Pro Leu Asp Arg Glu Ala Gly Asp Ser Tyr  
 165 170 175

Thr Leu Thr Val Val Ala Arg Asp Arg Gly Glu Pro Ala Leu Ser Thr  
 180 185 190

Ser Lys Ser Ile Gln Val Gln Val Ser Asp Val Asn Asp Asn Ala Pro  
 195 200 205

Arg Phe Ser Gln Pro Val Tyr Asp Val Tyr Val Thr Gln Asn Asn Val  
 210 215 220

Pro Gly Ala Tyr Ile Tyr Ala Val Ser Ala Thr Asp Arg Asp Gln Gly  
 225 230 235 240

Ala Asn Ala Gln Leu Ala Tyr Ser Ile Leu Gln Cys Gln Ile Gln Gly  
 245 250 255

Met Ser Val Phe Thr Tyr Val Ser Ile Asn Ser Ala Asn Gly Tyr Leu  
240 241 242

Tyr Ala Leu Arg Ser Ile Asn Tyr Glu Glu Leu Lys Asp Phe Ser Phe  
245 246 247

Gln Val Glu Ala Arg Asp Ala Gly Ser Pro Gln Ala Leu Ala Gly Asn  
290 291 292

Ala Thr Val Asn Ile Leu Ile Val Asp Gln Asn Asp Asn Ala Pro Ala  
305 310 315 320

Ile Val Ala Pro Leu Pro Gly Arg Asn Gly Thr Pro Ala Arg Glu Val  
325 330 335

Leu Pro Arg Ser Ala Glu Pro Gly Tyr Leu Leu Thr Arg Val Ala Ala  
340 345 350

Val Asp Ala Asp Asp Gly Glu Asn Ala Arg Leu Thr Tyr Ser Ile Val  
355 360 365

Arg Gly Asn Glu Met Asn Leu Phe Arg Met Asp Trp Arg Thr Gly Glu  
370 375 380

Leu Arg Thr Ala Arg Arg Val Pro Ala Lys Arg Asp Pro Gln Arg Pro  
385 390 395 400

Tyr Glu Leu Val Ile Glu Val Arg Asp His Gly Gln Pro Pro Leu Ser  
405 410 415

Ser Thr Ala Thr Leu Val Val Gln Leu Val Asp Gly Ala Val Glu Pro  
420 425 430

Gln Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Glu His Gln Arg  
435 440 445

Pro Ser Arg Ser Gly Gly Gly Glu Thr Ser Leu Asp Leu Thr Leu Ile  
450 455 460

Leu Ile Ile Ala Leu Gly Ser Val Ser Phe Ile Phe Leu Leu Ala Met  
465 470 475 480

Ile Val Leu Ala Val Arg Cys Gln Lys Glu Lys Lys Leu Asn Ile Tyr

481

491

496

Thr Cys Leu Ala Ser Asp Cys Cys Leu Cys Cys Cys Cys Cys Gly Gly  
 501 505 510

Gly Gly Ser Thr Cys Cys Gly Arg Gln Ala Arg Ala Arg Lys Lys Lys  
 515 520 525

Leu Ser Lys Ser Asp Ile Met Leu Val Gln Ser Ser Asn Val Pro Ser  
 530 535 540

Asn Pro Ala Gln Val Pro Ile Glu Glu Ser Gly Gly Phe Gly Ser His  
 545 550 555 560

His His Asn Gln Asn Tyr Cys Tyr Gln Val Cys Leu Thr Pro Glu Ser  
 565 570 575

Ala Lys Thr Asp Leu Met Phe Leu Lys Pro Cys Ser Pro Ser Arg Ser  
 580 585 590

Thr Asp Thr Glu His Asn Pro Cys Gly Ala Ile Val Thr Gly Tyr Thr  
 595 600 605

Asp Gln Gln Pro Asp Ile Ile Ser Asn Gly Ser Ile Leu Ser Asn Glu  
 610 615 620

Thr Lys His Gln Arg Ala Glu Leu Ser Tyr Leu Val Asp Arg Pro Arg  
 625 630 635 640

Arg Val Asn Ser Ser Ala Phe Gln Glu Ala Asp Ile Val Ser Ser Lys  
 645 650 655

Asp Ser Gly His Gly Asp Ser Glu Gln Gly Asp Ser Asp His Asp Ala  
 660 665 670

Thr Asn Arg Ala Gln Ser Ala Gly Met Asp Leu Phe Ser Asn Cys Thr  
 675 680 685

Glu Glu Cys Lys Ala Leu Gly His Ser Asp Arg Cys Trp Met Pro Ser  
 690 695 700

Phe Val Pro Ser Asp Gly Arg Gln Ala Ala Asp Tyr Arg Ser Asn Leu  
 705 710 715 720

His Val Pro Gly Met Asp Ser Val Pro Asp Thr Glu Val Phe Glu Thr  
721 731 735

Pro Glu Ala Gln Pro Gly Ala Glu Arg Ser Phe Ser Thr Phe Gly Lys  
741 745 751

Glu Lys Ala Leu His Ser Thr Leu Glu Arg Lys Glu Leu Asp Gly Leu  
755 760 765

Leu Thr Asn Thr Arg Ala Pro Tyr Lys Pro Pro Tyr Leu Ser Pro Tyr  
770 775 780

Leu Thr  
785

<210> 222  
<211> 80  
<212> PRT  
<213> Homo sapien

<400> 222

Met Tyr Lys Arg Arg Ser Cys Lys Ile Ala Pro Ile Glu Ser Glu Leu  
1 5 10 15

Glu Asn Leu Glu Glu Cys Ala Leu Thr Asn Ala Pro Phe Ser Ser Lys  
20 25 30

Ala His Phe Phe Phe Leu Gln Thr Lys Leu Leu Glu Gln Val Asp Tyr  
35 40 45

Thr Phe Cys His Ser His Val Trp Lys Asn Lys Asn Gly His Lys Leu  
50 55 60

Phe Ala Ala Pro Tyr Val Lys Ser Trp Ser Pro Leu Ala Gly Cys Gly  
65 70 75 80

<210> 223  
<211> 87  
<212> PRT  
<213> Homo sapien

<400> 223

Met Ser His Pro Phe Leu Ala Ile Leu Gly Cys Trp Thr Ser Gln Leu  
1 5 10 15

His Phe Leu Leu Ser Cys Leu Asn Phe Tyr Leu Ser Thr Glu Thr Leu

20 25 30  
 Leu Thr Thr Tyr Lys Arg Ala Gly Ile Ser Pro Leu Asp Pro Thr Ile  
 15 40 45  
 Pro Ser Ser Ser Leu Phe Leu Cys Ile Leu Leu Gln Gln Thr Ser Gln  
 50 55 60  
 Gly Phe Phe Leu Ser Pro Ile Ser Leu Pro Leu His Leu Gly Phe Cys  
 65 70 75 80  
 Leu Arg His Phe Asn Lys Thr  
 85

<210> 224  
 <211> 61  
 <212> PRT  
 <213> Homo sapien  
  
 <220>  
 <221> MISC\_FEATURE  
 <222> (8)..(8)  
 <223> X=any amino acid

<400> 224  
 Met Thr Gln Leu Ile Cys Thr Xaa Gln His Asp Gln Asn Gln Asn Val  
 1 5 10 15  
 Gln Phe Phe Glu Ser Arg His Ile Thr Thr Val Asn His Ile Leu Ser  
 20 25 30  
 Tyr Lys Ala Thr Gln Glu Ile Leu Lys Ile Gln Ile Ile Val Ile Phe  
 35 40 45  
 Tyr Tyr Ser Ala Phe Lys Ile Glu Ile Asn Lys Glu Leu  
 50 55 60

<210> 225  
 <211> 78  
 <212> PRT  
 <213> Homo sapien  
  
 <400> 225

Met Phe Met Val Ser His Leu Ala Pro Arg Ser Leu Asn Arg Ser His  
 1 5 10 15

Leu Leu His His Leu Val Leu Lys His Leu Tyr Lys Met Gln Ile Thr  
 20 20 20 20 20 20 20 20 20 20 20 20 20 20

Ile Leu His Ser Val Gln Phe Asp Pro Phe Gln Ile Gln Tyr Met Gln  
 35 40 45 45 45 45 45 45 45 45 45 45 45 45

Thr Phe Pro Gly Gly Asp Val Arg Leu Arg Thr Thr Lys Tyr Val Phe  
 50 55 60 60 60 60 60 60 60 60 60 60 60 60

Lys Asn Ile Glu Ser Ile Ser Pro Ile Val Asn Ala Leu Ser  
 65 70 75 75 75 75 75 75 75 75 75 75 75 75

<210> 226  
 <211> 38  
 <212> PRT  
 <213> Homo sapien

<400> 226

Met Leu Ala Asn Met Val Val Tyr Thr Lys Ala Leu Tyr Asp Gln Leu  
 1 5 10 15 20 25 30 35 40 45 50 55 60 65

Val Asn Lys Ser Leu Tyr Asn Cys Lys Gly Lys Ile Lys Thr Asp Leu  
 20 25 30 35 40 45 50 55 60 65 70 75 80 85

Leu Lys Gln Tyr Thr Ile  
 35 40 45 50 55 60

<210> 227  
 <211> 45  
 <212> PRT  
 <213> Homo sapien

<400> 227

Met Pro Leu Trp Gln Arg Glu Phe Ser Asn Lys Thr Gln Leu Gly Arg  
 1 5 10 15 20 25 30 35 40 45 50 55 60 65

Arg Glu Trp Asn Tyr Leu Leu Ile Ser Tyr Cys Asp Ile Arg Tyr Cys  
 20 25 30 35 40 45 50 55 60 65 70 75 80 85

Tyr Ile His Leu Ser Leu Trp Tyr Leu Leu Asn Asn Trp  
 35 40 45 50 55 60 65 70 75 80 85 90 95

<210> 228  
 <211> 67  
 <212> PRT  
 <213> Homo sapien

&lt;400&gt; 229

Met Gly Leu Asp Phe Pro Phe His Ala Gln Lys Lys Leu Ser Leu Arg  
1 5 10 15

Gln Lys Ala Gln Gln Ser Gly Pro Arg Lys Ala Thr Thr Asn Ile Leu  
20 25 30

His Ala Lys Lys Glu Ala Lys Glu Gln Val Gln Leu Tyr Pro Asn Met  
35 40 45

Leu Ile Ile Gly Val Ile Leu Ala Gln Leu Val Arg Pro Pro Gly Gly  
50 55 60

Gln Gly Ile  
65

&lt;210&gt; 229

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 229

Lys Asn Lys Gln Lys Lys Lys Arg Lys Lys Arg Lys Lys Arg Lys Lys  
1 5 10 15

Arg Lys Lys Arg Lys Lys Arg Lys Arg Lys Arg Lys Lys Lys Arg Arg  
20 25 30

Lys Lys Gly Arg Arg Arg Arg Lys Lys Lys Lys Lys Lys Lys Lys Lys  
35 40 45

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Glu  
50 55 60

Arg Lys Lys Gln Arg Lys Arg Gln Asp Ser Thr Asn  
65 70 75

&lt;210&gt; 230

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 230

Met Glu Met His Gly Asn Ala Phe Val Ser Thr Val Leu Glu Arg Leu  
1 5 10 15



Lys His Ile Ile  
11

<211> 231  
<211> 41  
<212> PRT  
<213> Homo sapien

<400> 231

Met Pro Leu Gln Gly Pro Gln Phe Glu Lys Tyr Tyr Leu Val Lys Phe  
1 5 10 15

Trp Leu Leu Cys Lys Asn Phe His Ser Leu Thr Gln Ala Ser Gly Thr  
20 25 30

Ala Tyr Phe Leu Thr Leu Thr Leu Leu Lys Leu Phe Gln Ser Leu Leu  
35 40 45

Cys Leu Gln Ala Leu Glu Thr Glu Glu Arg Asn Phe Thr  
50 55 60

<210> 232  
<211> 39  
<212> PRT  
<213> Homo sapien

<400> 232

Met Ile Tyr Gly Ile Ile Gly Ile Phe Ile Phe Asn Thr Ile Tyr His  
1 5 10 15

Phe Ser Gly Leu Thr Leu Ser Asp Leu Phe Gly Ile Phe Ser Leu Met  
20 25 30

Thr Lys Phe Ile Asn Gln Trp  
35

<210> 233  
<211> 42  
<212> PRT  
<213> Homo sapien

<400> 233

Met Phe His Arg Ile His Gly Gln Arg Ile Arg Gln Ala Phe Glu Met  
1 5 10 15

Asn Arg Ile Ser Leu Thr Ser Pro Ser Phe Cys Gln Phe Val Leu Phe

21

21

31

Leu Ser His Ile His Gln Leu Ser Pro Ser  
 35 40

<211> 234  
 <211> 40  
 <212> PRT  
 <213> Homo sapien

<400> 234

Met Ile His Arg Ile His Gly Gln Arg Ile Arg Gln Ala Phe Gln Met  
 1 5 10 15

Asn Arg Ile Ser Leu Thr Ser Pro Ser Phe Cys Gln Phe Val Leu Phe  
 20 25 30

Leu Ser His Ile His Gln Leu Ser Pro Ser  
 35 40

<210> 235  
 <211> 37  
 <212> PRT  
 <213> Homo sapien

<400> 235

Met Leu Met Asn Val Lys Val Ala Lys Thr Gln Ala Leu Thr Ile Leu  
 1 5 10 15

Met Ile Leu Leu Phe Lys Thr Asp Leu Tyr Gly Gln Lys His Arg Asn  
 20 25 30

Gly Ser Ser Arg Phe  
 35

<210> 236  
 <211> 135  
 <212> PRT  
 <213> Homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> 72 ... 72'  
 <223> X-ray amino acid

<220>  
 <221> MISC\_FEATURE  
 <222> 116 ... 116'

<200> X-ray amino acid

<201>

<211> MISS PEATERN

<222> 191 .. 191

<223> X-ray amino acid

<400> 236

Met Lys Pro Ser Leu Cys Pro Arg Ala Val Gln Ala Ala Ala Val Ala  
1 5 10 15

Pro Thr Asn Ser Gln Glu Thr Tyr Ser Val Pro Gln Gly Arg Cys Arg  
20 25 30

Trp Gln Pro Trp Pro Arg Pro Ala His Arg Lys Pro Thr Leu Cys Pro  
35 40 45

Gly Ala Gly Ala Gly Gly Ser His Gly Pro Asp Gln Leu Thr Gly Asn  
50 55 60

Leu Leu Cys Cys Pro Arg Gly Xaa Cys Arg Arg Gln Pro Trp Pro Arg  
65 70 75 80

Pro Ser Ser His Glu Asn Leu Ser Leu Leu Pro Pro Gly Ala Ile Ala  
85 90 95

Arg Arg Gln Ala Met Ala Pro Thr Ser Ser Gln Glu Thr Tyr Ser Val  
100 105 110

Pro Pro Gly Xaa Leu Pro Leu Ala Ala Met Ala Pro Asn Gln His Thr  
115 120 125

Gly Lys Xaa Thr Gly Thr Leu  
130 135

<210> 237

<211> 419

<212> PRT

<213> Homo sapien

<400> 237

Met Ala Pro Thr Ser Ser Gln Gln Thr Tyr Ser Val Pro Arg Gly Arg  
1 5 10 15

Cys Arg Gln Gln Pro Trp Pro Arg Pro Ala His Arg Lys Pro Ser Leu

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Cys | 140 | Arg | Ala | Val | Gln | Ala | Ala | Ala | Val | Ala | Pro | Thr | Ser | Ser | Gln |  |
|     | 45  |     |     |     |     |     |     |     | 41  |     |     |     | 47  |     |     |  |
| Gln | Thr | Tyr | Ser | Val | Pro | Gln | Gly | Arg | Cys | Arg | Tyr | Gln | Pro | Trp | Pro |  |
|     | 51  |     |     |     |     | 55  |     |     |     |     | 61  |     |     |     |     |  |
| Arg | Pro | Ala | His | Arg | Lys | Pro | Thr | Leu | Cys | Pro | Arg | Ala | Gly | Ala | Gly |  |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |  |
| Gly | Ser | Arg | Gly | Pro | Asp | Gln | Leu | Thr | Gly | Asn | Leu | Leu | Cys | Ala | Leu |  |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |  |
| Gly | Gln | Gly | Arg | Cys | Arg | Arg | Gln | Pro | Trp | Pro | Arg | Pro | Ala | Pro | Thr |  |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |  |
| Ser | Leu | Ser | Cys | Ser | Arg | Ser | Ala | Pro | Gly | Pro | Ala | Pro | Ser | Gly | Pro |  |
|     | 115 |     |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |  |
| Arg | Gly | Lys | Thr | Pro | Ser | Ser | Pro | Thr | Leu | Ser | Pro | Ser | Arg | Gly | Ser |  |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |  |
| Pro | Leu | Leu | Leu | Arg | Glu | Pro | Ser | Leu | Val | Thr | Asp | Ser | Leu | Glu | Ala |  |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |  |
| His | Arg | Gly | Ser | Leu | Ala | Pro | Gly | Val | Leu | Trp | Thr | Ser | Gly | Thr | Ala |  |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |  |
| Ser | Gly | Ser | Lys | Ala | Ala | Pro | Pro | Pro | Gln | Glu | Gly | Leu | Met | Thr | Glu |  |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |  |
| Leu | Gln | Ser | Cys | Gly | Gly | Arg | Thr | Ala | Thr | Gly | Pro | Cys | Leu | Pro | Thr |  |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |  |
| Gly | Ser | Glu | Arg | Pro | Ser | Leu | Arg | Leu | Pro | Gly | Pro | Cys | Pro | Ser | Val |  |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |  |
| Gly | His | Ser | Gln | Ala | Leu | Gly | Gln | Arg | Lys | Gln | Phe | Arg | Glu | Thr | Ala |  |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |
| Gln | Ala | Arg | Lys | Ala | Gln | Val | Ala | Trp | Glu | Pro | Arg | Ser | Ala | Glu | Ile |  |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |  |

His Leu Glu Lys Glu Glu Ala Trp Pro Gly His Pro Ala Ser Lys Gly  
260 265 270

Glu Arg Glu Ala Pro Gly Val Gly Ser Gly Val Leu Gly Pro His Glu  
275 280 285

Thr Gly Ile Phe Pro Pro Leu Pro Gly Gly Gly Ala Gly Arg Ala Ser  
290 295 300

Pro Ala Glu Ala Pro Gly Ser Val Arg Asn Asn Arg Lys Gly Ser Arg  
305 310 315 320

Gly Thr Gly Thr Ser His Thr Pro His Pro Val His Pro Ile Gly Pro  
325 330 335

Ile His Pro Val His Pro Val Tyr Pro Ile Tyr Arg His Phe Pro Leu  
340 345 350

His Ser Glu Leu Ser Arg Leu Leu Thr Leu Glu Glu Leu Asn Ser Gly  
355 360 365

Leu Ala Ser Cys Leu Glu Cys Gly Thr Leu Cys Ser Ser Thr Trp Glu  
370 375 380

Pro Glu Gly Ala Arg Ser Val Gly Ile Cys Thr Leu Pro Leu Thr Glu  
385 390 395 400

Ile Tyr His Ala Glu Thr Ser Asp Leu Arg Gly Thr Ser Ala Gly Pro  
405 410 415

Trp Val His

<210> 236

<211> 69

<212> FRT

<213> Homo sapien

<400> 236

Met Val Ser Asn Asn Tyr Leu Thr Gly Phe Trp Leu Gly Ile Phe Leu  
1 5 10 15

Leu Pro His Thr Val Pro Val Glu Asn Val Glu Val His Phe Gly Leu  
20 25 30

Tyr Ile Phe Met Lys His Leu Glu Gly Trp Gly Gly Gly Lys Gln Val  
 30 40 45

Ser Lys Ser Arg Lys Met Tyr Phe Val Arg Leu  
 55

<210> 239  
 <211> SP  
 <212> PRT  
 <213> Homo sapien

<400> 239

Met Val Ser Asn Asn Tyr Leu Thr Gly Phe Trp Leu Gly Ile Phe Leu  
 1 5 10 15

Leu Pro His Thr Val Pro Val Glu Asn Val Glu Val His Phe Gly Leu  
 20 25 30

Tyr Ile Phe Met Lys His Leu Glu Gly Trp Gly Gly Gly Cys Gln Val  
 35 40 45

Ser Lys Ser Arg Lys Met Tyr Phe Val Arg Leu  
 50 55

<210> 240  
 <211> 73  
 <212> PRT  
 <213> Homo sapien

<400> 240

Met Asn Val Leu Pro Leu Lys Lys Asn Gln Leu Ser His Ile Thr His  
 1 5 10 15

Ile Tyr Ile Leu Leu His Asn Asn Val Leu Asn Trp Thr Thr Val Asn  
 20 25 30

Gln Arg Val Ile Ala Ala Ser Glu Gly Asp Arg Leu Leu Thr Phe Arg  
 35 40 45

Tyr Cys Leu Met Pro Gly Lys Pro Trp Glu Pro Arg Gln Val Asn Leu  
 50 55 60

Thr Lys Leu Leu Leu Phe Ser Gln Leu  
 65 70

<210> 241

<211> 21  
 <212> PRT  
 <213> Homo sapien

<214> 141

Met Asn Val Leu Irs Leu Lys Lys Asn Gln Leu Ser His Ile Thr His  
 1 5 10 15

Ile Tyr Ile Leu Leu His Asn Asn Val Leu Asn Trp Thr Thr Val Asn  
 20 25 30

Gln Arg Val Ile Ala Ala Ser Glu Gly Asp Arg Leu Leu Thr Phe Arg  
 35 40 45

Tyr Cys Leu Met Pro Gly Lys Pro Trp Gln Pro Arg Gln Val Asn Leu  
 50 55 60

Thr Lys Leu Leu Leu Phe Ser Gln Leu  
 65 70

<210> 242  
 <211> 39  
 <212> PRT  
 <213> Homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> 12...12  
 <223> X=any amino acid

<220>  
 <221> MISC\_FEATURE  
 <222> 14...15  
 <223> X=any amino acid

<220>  
 <221> MISC\_FEATURE  
 <222> 17...17  
 <223> X=any amino acid

<220>  
 <221> MISC\_FEATURE  
 <222> 11...11  
 <223> X=any amino acid

<220>  
 <221> MISC\_FEATURE  
 <222> 15...15  
 <223> X=any amino acid

<210>  
 <211> MISC FEATURE  
 <212> 17 .. 22  
 <213> N-amy amino acid

<400> 242

Met Xaa Thr Xaa Xaa Pro Xaa Ser Trp Met Xaa Ala Phe Lys Xaa Asp  
 1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Arg Trp Asn Leu Ser Ile Arg Gly Ser Phe  
 20 25 30

Ala Thr Asp Phe Ser Asn Gly  
 35

<210> 243  
 <211> 81  
 <212> PRT  
 <213> Homo sapien

<400> 243

Met Ile Ile Tyr Asn Tyr Asn Val Tyr Cys Phe Thr Tyr Ile Phe Pro  
 1 5 10 15

Lys Tyr Thr Ile Asn Ala Leu Pro His Phe Ala Leu Phe Thr Lys Tyr  
 20 25 30

Ile Leu Gln Ile Ile Leu Tyr Ser Tyr Ile Lys Ser Phe Ile Val Pro  
 35 40 45

Phe Tyr Gly Cys Lys Met Phe Gln Leu Met Asp Gly Leu Ile Leu Tyr  
 50 55 60

Arg Ala Thr Leu Arg Leu Cys Pro Ile Leu Leu Phe Leu Ile Leu Leu  
 65 70 75 80

Lys

<210> 244  
 <211> 85  
 <212> PRT  
 <213> Homo sapien

<220>



<210> MISC\_FEATURE  
 <211> ...  
 <220> Many amino acid

<400> 244

Met Ser Gly Gln Leu Lys Ala Gly Ala Gln Gly Pro Gln Gly Leu Val  
 1 5 10 15

Gln Gly Met Lys Cys Ala His Ile Lys Arg Lys Val Ala Met Gln Ser  
 20 25 30

Lys Gln Gly Gln Val Gln Met Cys Ser Val Asn Leu Ile Leu Arg Gln  
 35 40 45

Gly Arg Gly Phe Gly Leu Gly Gln Asp Pro Lys Gln Gly Ala Gln Asp  
 50 55 60

Met Gln Leu Gln Ala Val Arg Lys Val Val Phe Xaa Gln Gly Ala Val  
 65 70 75 80

Leu Thr Arg Pro Leu  
 85

<210> 245  
 <211> 70  
 <212> PRT  
 <213> Homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> ...  
 <223> Many amino acid

<400> 245

Met Ser Thr Phe Thr Phe Thr Ala Lys Gln Gly Phe Gln Val Val Phe  
 1 5 10 15

Ser Ser Leu Asn Ser His Leu Pro Lys Met Gln Xaa Xaa Xaa Xaa Xaa  
 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser Gly Trp Leu Ser  
 35 40 45

Gln Ser Pro Asn Asn Pro Met Lys Tyr Gln Arg Phe Leu Gln Arg Leu  
 50 55 60

Leu Val Glu Lys Val Thr  
 35 71

<211> 246  
 <211> 41  
 <212> PRT  
 <213> Homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> 21 .. 31  
 <223> X-ray amino acid

<400> 246

Met Val Pro Gly Gly Gln Arg Ala Gly Gly Leu Cys Leu Lys Arg Ser  
 1 5 10 15

Leu Gln Ile Val Phe Glu Lys Ile Thr Gln Asn Gln Pro Trp Xaa Tyr  
 20 25 30

Leu Arg Gln Glu Gly Lys Tyr Phe Lys Arg Leu Cys Glu Phe Val Ser  
 35 40 45

Val His Leu Phe Phe Val Glu Tyr Ile Leu Leu Ile  
 50 55 60

<210> 247  
 <211> 48  
 <212> PRT  
 <213> Homo sapien

<400> 247

Met Gln Gln Asp Ser Tyr Ser Val Asn Trp Tyr Ser Leu Tyr Arg Gly  
 1 5 10 15

Gln Leu Lys Lys His Phe Phe Asp Gln Ala Ile Pro Leu Leu Gly Ile  
 20 25 30

His Pro Thr Asp Ile Leu Ser His Ile Leu Lys Asn Arg Pro Gly Thr  
 35 40 45

<210> 248  
 <211> 103  
 <212> PRT  
 <213> Homo sapien

<400> 248

Ile Ile Leu Ala Leu Ile Arg Asp Arg Val Ser Pro Ser Phe Arg Leu  
1 5 11 11

Ala Tyr Ser Gly Ala Ile Met Ala His Cys His Leu Gln Leu Leu Gly  
21 25 31

Leu Arg Asn Pro Pro Thr Ser Ala Ser Ala Val Ala Gly Ser Thr Gly  
35 40 45

Gln Cys His His Gly Trp Ala Asn Ala Ala Lys Phe Leu Phe Ser Ile  
51 55 59

Glu Ile Gly Leu Cys His Phe Ala Gln Ala Gly Leu Glu Leu Val Gly  
65 70 75 80

Ala Ser Asn Pro Ala Pro Ser Thr Ser Gln Ser Pro Gly Ile Thr Gly  
85 90 95

Val Ser His Cys Ala Trp Pro  
100

<210> 249  
<211> 38  
<212> PRT  
<213> Homo sapien

<400> 249

Met Trp Tyr Met Thr Ile Phe Pro Gly Trp Val Gln Gly Gln Val His  
1 5 10 15

Arg Asp Ser Trp Val Lys Lys Ser Leu Tyr Ser His Leu Leu Leu Lys  
20 25 30

Ala Lys Ser Pro Val Gly  
35

<210> 250  
<211> 58  
<212> PRT  
<213> Homo sapien

<220>  
<221> MISC\_FEATURE  
<222> 117..119  
<223> X=any amino acid

&lt;411&gt; 251

Met Phe Thr Asp Val Leu Gln Leu Lys Val Xaa Xaa Xaa Xaa Xaa Xaa  
 1 5 10 15

Xaa Xaa Xaa Gln Asp Met Ser Lys Tyr Ala Trp Leu Phe Ser Ile Met  
 20 25 30

Lys Met Leu Ser Ile Ser Leu Leu Ser Val Leu Gly Val Gln Leu Thr  
 35 40 45

Val Leu Gly His Phe Ile Gln Phe  
 50 55

&lt;210&gt; 251

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 251

Met Phe Pro Gly Asn Ile Phe Phe Asn Phe Pro Arg Ser Ser Leu Tyr  
 1 5 10 15

Ser Arg Gln Thr Ser Leu Ala Val Ser Gln Ile Gly Gln Ala His Ser  
 20 25 30

Cys Ile Arg Ala Phe  
 35

&lt;210&gt; 252

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 252

Met Val Lys Lys Val Leu Ile Leu Met Thr Leu Tyr Gln Asn Lys Ala  
 1 5 10 15

Ser Asp Ile Ser Leu Gly Leu Tyr Leu Asp Asp Gln Leu Thr  
 20 25 30

&lt;210&gt; 253

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 253

Met Val Lys Lys Val Leu Ile Leu Met Thr Leu Tyr Glu Asn Lys Ala  
1 4 11 16

Ser Asp Ile Ser Leu Gly Leu Tyr Leu Met Ile Ser  
21 26

<210> 254  
<211> 19  
<212> PRT  
<213> Homo sapien

<400> 254

Met Arg Asn Trp Leu Ile Ser Arg Glu Asn Ser Lys Ala His Arg Lys  
1 5 10 15

Ser Arg Cys

<210> 255  
<211> 19  
<212> PRT  
<213> Homo sapien

<400> 255

Met Arg Asn Trp Leu Ile Ser Arg Glu Asn Ser Lys Ala His Arg Lys  
1 5 10 15

Ser Arg Cys

<210> 256  
<211> 93  
<212> PRT  
<213> Homo sapien

<400> 256

Met Phe Ser Ser Ala Asn Ser Ile Leu Gly Ala Leu Leu Ile Trp Ala  
1 5 10 15

Gly Met Ser Trp Leu Pro Ile Glu Ala Val Cys Arg Tyr Pro Leu Pro  
20 25 30

Ala Ser Val Pro Ser Glu His Arg Arg Asp Leu Pro Cys Val Ser Leu  
35 40 45

His Pro Trp Leu Glu Gly Ser Ser Cys Cys Leu Leu Trp Ser Trp Trp  
50 55 60

Gly Pro His Cys His Pro Trp Ile Asn Ser Cys Arg Gln Pro Ala Val  
 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

Leu Ser Ala Leu Gly Gly Gly Gly Ala Leu Trp Leu Cys  
 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300

<210> 257  
 <211> 121  
 <212> FRT  
 <213> Homo sapien

<400> 257

Met Phe Ser Ser Ala Asn Ser Ile Leu Gly Ala Leu Leu Ile Arg Ala  
 1 5 10 15

Gly Met Ser Trp Leu Pro Ile Glu Ala Val Cys Arg Tyr Pro Leu Pro  
 20 25 30

Ala Ser Val Pro Ser Glu His Arg Arg Asp Leu Pro Cys Val Ser Leu  
 35 40 45

His Pro Trp Leu Gln Gly Ser Ser Cys Cys Leu Leu Trp Ser Trp Trp  
 50 55 60

Gly Pro His Cys His Pro Trp Ile Pro Ser Cys Arg Gln Pro Cys Cys  
 65 70 75 80

Pro Gln Cys Thr Gly Arg Arg Gly Cys Ala Val Val Val Leu Ser Leu  
 85 90 95

His Arg Cys Pro Leu Val Gly Leu Glu Trp Gly Phe Leu Ile Pro Pro  
 100 105 110

Ser Met Trp Ile Glu Phe Arg Gly Leu  
 115 120

<210> 258  
 <211> 20  
 <212> FRT  
 <213> Homo sapien

<400> 258

Met Lys Val Gln Gly Ala Asp Val Ala Ala Ala Ala Ser Tyr Gln Glu  
 1 5 10 15

Tyr Leu Thr Lys  
1 21

<211> 259  
<211> 47  
<212> PRT  
<213> Homo sapien

<400> 259

Met Met Pro Ala Trp Val Val Gly Trp Val Gly Ala Glu Ser Thr Pro  
1 5 10 15

Ala Pro Leu Met Lys Arg Gly Gly Arg Cys Phe Leu Ser Leu Val Leu  
20 25 30

Met Cys Pro Leu Gly Trp Trp Gln Leu Gly Leu Leu Arg Ala Thr Pro  
35 40 45

Ser Thr Met Pro Leu Leu Ile Ala Lys Ala Ser Ala Tyr Pro Pro Val  
50 55 60

Leu Asn Thr  
65

<210> 260  
<211> 49  
<212> PRT  
<213> Homo sapien

<400> 260

Met Ser Phe Gln Val His Pro Ser Ile Leu Lys His Lys Tyr Pro Thr  
1 5 10 15

Ile Leu Asn Asn Phe Arg Thr Lys Ile Asn Ile Leu Thr Arg Lys Lys  
20 25 30

His Ala Met Thr Ser Cys Asn Leu Ile Lys Lys Asp Lys Glu Trp Ser  
35 40 45

Leu

<210> 261  
<211> 32  
<212> PRT  
<213> Homo sapien

<210>  
 <211> MIX FEATURE  
 <212> 24 1. 14  
 <213> Heavy amino acid

<410> 261

Met Phe Thr Phe Leu Tyr Leu Val Ile Thr Glu Thr Asn Cys Leu Val  
 1 5 10 15

Thr Phe Glu Ile Asn Glu Ser Xaa Leu Ser Glu Cys Val Ile Asp Asn  
 20 25 30

<210> 262  
 <211> 47  
 <212> PRT  
 <213> Homo sapien

<400> 262

Met Ser Ser Met Glu Glu Ala Phe Gly Ser Glu Met Asn Cys Pro Arg  
 1 5 10 15

Ser Arg Gly Glu Glu Leu Gly Pro Gly Leu Thr Gly Phe Cys Ser Val  
 20 25 30

Val Leu Ser Arg Pro Trp Phe Leu Leu Tyr Pro Gly Gly Ala Phe  
 35 40 45

<210> 263  
 <211> 69  
 <212> PRT  
 <213> Homo sapien

<400> 263

Met Ala Val Leu Lys Thr Trp His Lys Tyr Met Ser Cys Ala Glu Thr  
 1 5 10 15

Gly Val Ala Pro Ser Phe Ile His Gly Asp Trp Glu Val Thr Thr Pro  
 20 25 30

Ala Pro Ala Pro Ser Cys Ile Pro Leu Ile Val Arg Lys Arg Glu Gly  
 35 40 45

Pro Ser Cys Leu Cys Pro His Ala Cys Val Thr Ala Ser Leu Phe Thr  
 50 55 60



Gln Arg Val Val His  
 41

<210> 264  
 <211> 70  
 <212> 1AT  
 <213> Homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> 4 .. 4  
 <223> X=any amino acid

<220>  
 <221> MISC\_FEATURE  
 <222> 18' .. 18'  
 <223> X=any amino acid

<220>  
 <221> MISC\_FEATURE  
 <222> 122' .. 122'  
 <223> X=any amino acid

<220>  
 <221> MISC\_FEATURE  
 <222> 138' .. 138'  
 <223> X=any amino acid

<220>  
 <221> MISC\_FEATURE  
 <222> 142' .. 142'  
 <223> X=any amino acid

<220>  
 <221> MISC\_FEATURE  
 <222> 146' .. 147'  
 <223> X=any amino acid

<220>  
 <221> MISC\_FEATURE  
 <222> 152' .. 152'  
 <223> X=any amino acid

<220>  
 <221> MISC\_FEATURE  
 <222> 155' .. 155'  
 <223> X=any amino acid

<400> 264

Met Thr Pro Xaa Trp Pro Arg Xaa Lys Phe Gly Gln Lys Glu Lys Lys  
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Pro Asn Phe Phe Phe Xaa Val Trp Ile Val Phe Ser Trp Lys Asn Asn  
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

Leu Gly Cys Pro Asn Xaa Cys His Phe Xaa Thr Val His Xaa Xaa Ile  
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

Thr Ser Ser Xaa Met Ser Xaa Asp Thr Asp Thr Gly Ser Asn Leu Thr  
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

Leu Tyr Ser Met Thr Gly Leu Lys Ile Arg Pro Lys Gly Ile Ile  
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

<210> 265  
<211> 25  
<212> PRT  
<213> Homo sapien

<400> 265

Met Ile Ser Glu Lys Leu Gly Gly Val Lys Cys Pro Gly Lys Lys Gly  
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6

Leu Gly Leu Gln Arg Tyr Thr Gln Met  
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7

<210> 266  
<211> 59  
<212> PRT  
<213> Homo sapien

<400> 266

Met Ala Thr Thr Thr Leu Thr Leu Ala Tyr Tyr Leu Ile Gln Leu Pro  
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8

Ser Lys Thr Asp Thr Ser Phe Leu Leu His Phe Asp Ile Ile Cys Gln  
9 9 9 9 9 9 9 9 9 9 9 9 9 9 9

Val Cys Phe Ile Pro Ser Tyr Ile Lys Asn Glu Ser Thr Val Gln Leu  
10 10 10 10 10 10 10 10 10 10 10 10 10 10 10

Tyr Ser Arg Arg His Leu Ser Tyr Lys Thr Val  
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11

<210> 267

<211> 48  
 <212> FRT  
 <213> Homo sapien

<407> 167

Met Leu Phe Ile Phe Val Asp Ile Lys Ser Gln His Ile Arg Thr Met  
 1 1 11 15

Lys Ile Phe Gln Arg Thr Ser Asp Ser Val Leu Leu Thr Phe Ala Tyr  
 20 25 30

Gly His Ser Asp Thr Ile Thr Ser Ser Ala Tyr Leu Ile Cys Arg Tyr  
 35 40 45

Leu Asp Ser Asn Gln Asp Leu Glu Asn Gln Arg Phe Arg Glu Asn Lys  
 50 55 60

Lys Lys Leu Arg Lys Ala Gln Asn Met Gln Phe Ser Lys Ile Phe Arg  
 65 70 75 80

Leu Ile His Lys Tyr Ser Thr Cys  
 85

<210> 268  
 <211> 48  
 <212> FRT  
 <213> Homo sapien

<400> 268

Met His His Ser Asn Thr Phe Leu Arg Val Lys Val Ile Ile Lys Asn  
 1 5 10 15

Tyr Leu Tyr Leu Leu Lys Tyr Ser Leu Lys Leu Trp Phe Leu Met Ser  
 20 25 30

Tyr Tyr Ser Ile Phe Glu Gly Ile Met Leu Tyr Leu Ile Asn  
 35 40 45

<210> 269  
 <211> 60  
 <212> FRT  
 <213> Homo sapien

<400> 269

Met Ser Leu Phe Lys Met Ser Phe Thr Ser Ala Gly Gln Gln Gln Ser  
 1 5 10 15

Tyr Met Ala Tyr Phe Gln Met Phe Phe Phe Val Ile Thr Met Thr Ala  
 1 25 30

Asn Gln Gln Leu Thr Thr Gln Ser Leu Val His Phe Val Thr His Ser  
 35 40 45

Leu Lys Pro His Phe Ile Phe Pro Gly Phe Phe Ile  
 50 55 60

<210> 270

<211> 69

<212> FRT

<213> Homo sapien

<220>

<221> MISC\_FEATURE

<222> (10)..(10)

<223> X=any amino acid

<400> 270

Met Cys Glu Lys Phe Tyr Ile Lys Cys Xaa Lys Lys Ile Ser Ala Ser  
 1 5 10 15

Met Arg Leu Pro Arg Asn Leu Gly Ala Phe Ile Lys Ile Thr Pro Asn  
 20 25 30

Lys Arg Asn Tyr Arg Arg Lys Lys Glu Lys Met Lys Thr Arg Thr Phe  
 35 40 45

Glu Leu Lys Asn Thr Val Glu Lys Lys Phe Met Glu Lys Met Gln Lys  
 50 55 60

Phe Lys Ile Lys Ile  
 65

<210> 271

<211> 96

<212> FRT

<213> Homo sapien

<400> 271

Met Pro Val Tyr Ser Leu Leu Gln Ile Pro Pro Gly Gln Ala Thr Leu  
 1 5 10 15

Lys Ile Pro Asp Lys Leu Lys Phe Ile Asn Leu Ile Leu Leu Ser Pro  
 20 25 30

Val Ser Pz Ile Ile Val Pro Ile Ala Arg Thr Ile Val Asn Leu His  
 31 41 43

Ser Cys Ser Ala Arg His Glu Ser Arg Lys Trp Gly Leu Ile Leu Pro  
 52 55 61

Ala Thr Leu Val Ser Asn Tyr Ser Glu Lys Glu Val Asp Val Leu Ile  
 63 70 75 81

Asp Gly Lys Ile Glu Met Ile Phe Leu Gly Glu Ile Phe Leu Arg Ser  
 85 90 95

<210> 272  
 <211> 48  
 <212> PRT  
 <213> Homo sapien

<400> 272

Met Gly Tyr Ile Leu Lys Leu Phe His Tyr Leu Asn Pro Leu Val Ser  
 1 5 10 15

Val Val Leu Leu Leu Ser Lys Glu Glu Ser Phe Phe Phe His Thr Asn  
 20 25 30

Gly Val Gly Glu Asn Ile Lys Ala Ser Val Ile Trp Lys Ser Ser Arg  
 35 40 45

<210> 273  
 <211> 38  
 <212> PRT  
 <213> Homo sapien

<400> 273

Met Asn Phe Tyr Arg Pro Arg Asn Ser Ser His Tyr Leu Thr Asn Phe  
 1 5 10 15

Ser Val Cys Val Glu Thr Val Thr Ser Leu Tyr Ser Glu Gly Ile Ala  
 20 25 30

Thr Tyr Asn Val Thr Asn  
 35

<210> 274  
 <211> 42  
 <212> PRT

<213> Homo sapien

<400> 274

Met Ala Ala Ile Ser Arg Pro Val Lys Ile His Leu Pro Lys Gln Asn  
1 5 10 15

His Ser Phe Phe Ile Phe Phe Trp Arg Trp Ser Phe Ala Leu Val Ala  
20 25 30

Gln Ala Gly Val Pro Arg Pro Arg Pro Arg  
35 40

<210> 275

<211> 30

<212> PRT

<213> Homo sapien

<400> 275

Met Leu Phe Trp Thr Leu Gly Ser Val Ile Tyr Tyr Val Cys Pro Ser  
1 5 10 15

Ile Gln Val Ser Leu Thr Leu Ser Lys Ile Pro Phe Thr Asn  
20 25 30

<210> 276

<211> 244

<212> PRT

<213> Homo sapien

<400> 276

Leu Leu Gly Thr Ala Phe Gln Leu Phe Gly Tyr Gln Gln Asn Ala Val  
1 5 10 15

Gln Ser Leu Gln His Leu Leu Lys Phe Met Ala Ser Asn Lys Ala Ala  
20 25 30

Ala Asp Asp Ala Ser Val Ala Ala Ala Ala Gln Ser Phe Phe Gln Arg  
35 40 45

Leu Gln Leu Gly Asp Met Gln Ala Leu Ser Leu Trp Gln Lys Phe Arg  
50 55 60

Asp Leu Ser Ile Gln Gln Tyr Ile Arg Val Tyr Lys Arg Leu Gly Val  
65 70 75 80

Tyr Phe Asp Gln Tyr Ser Gly Gln Ser Phe Tyr Arg Gln Lys Ser Gln

Ba

Al

At

Leu Val Leu Lys Leu Leu His Ser Lys Gly Leu Leu Leu Lys Thr Ile  
111 114 111

Lys Gly Thr Ala Val Val Asp Leu Ser Gly Asn Gly Asp Pro Ser Ser  
111 121 125

Ile Cys Thr Val Met Arg Ser Asp Gly Thr Ser Leu Tyr Ala Thr Arg  
131 135 140

Asp Leu Ala Ala Ala Ile Asp Arg Met Asp Lys Tyr Asn Phe Asp Thr  
145 150 155 160

Met Ile Tyr Val Thr Asp Lys Gly Gln Lys Lys His Phe Gln Gln Val  
165 170 175

Phe Gln Met Leu Lys Ile Met Gly Tyr Asp Trp Ala Glu Arg Cys Gln  
180 185 190

His Val Pro Phe Gly Val Val Gln Gly Met Lys Thr Arg Arg Gly Asp  
195 200 205

Val Thr Phe Leu Gln Asp Val Leu Asn Gln Ile Gln Leu Arg Met Leu  
210 215 220

Gln Asn Met Ala Ser Ile Lys Ser Glu Phe Ser Phe Phe Leu Leu Lys  
225 230 235 240

Ser Leu Lys Ser

<210> 277

<211> 35

<212> FRT

<213> Homo sapien

<400> 277

Met Met Gly Leu Leu Gln Ala Trp Ile Pro Gln Asp Ser Thr Ala Gln  
1 5 10 15

Trp Ser Asn Thr Gly Ser Thr Ala Asn Gln Arg Gln Cys Tyr Ile Leu  
20 25 30

Arg Gln Ile

